

# Challenge Writeup

Title: Become admin of this site

Category: web

Author: Gokul

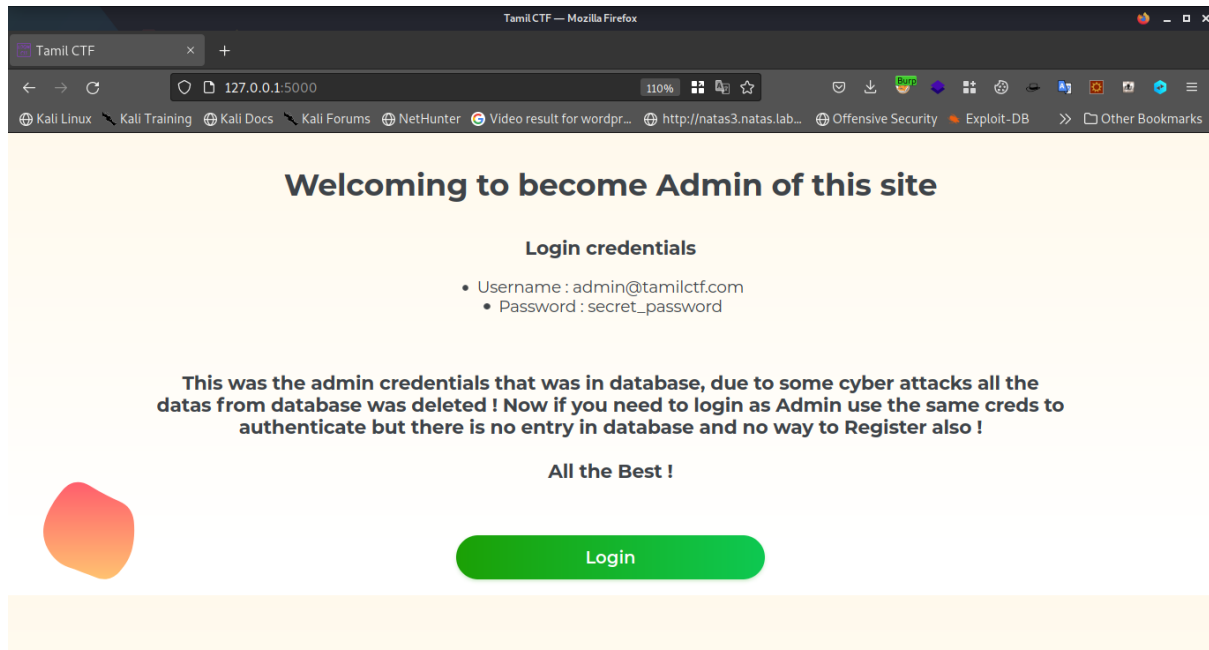
Description:

I heard you're a hacker can you become admin of this site ?

Points: 100

# Walkthrough:

- Home page



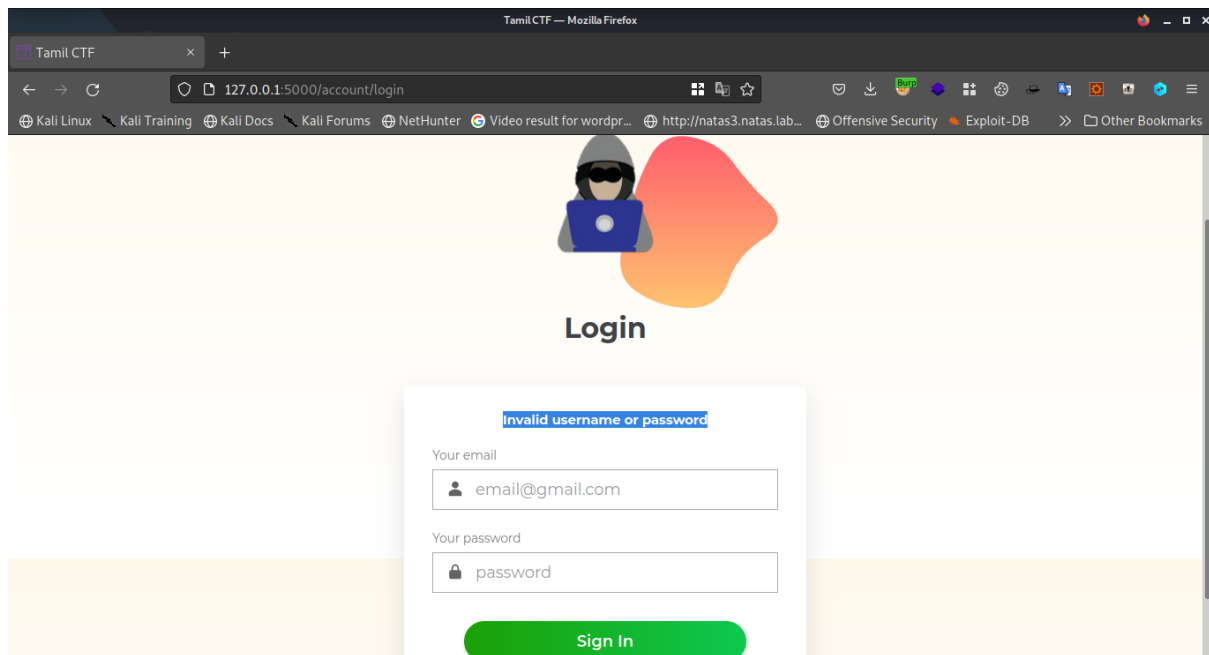
It shows the admin credentials as

- [admin@tamilctf.com](mailto:admin@tamilctf.com)
- Secret\_password

And its mentioned that it has been deleted due to a cyber attack

If we click the login button we get a login page as below

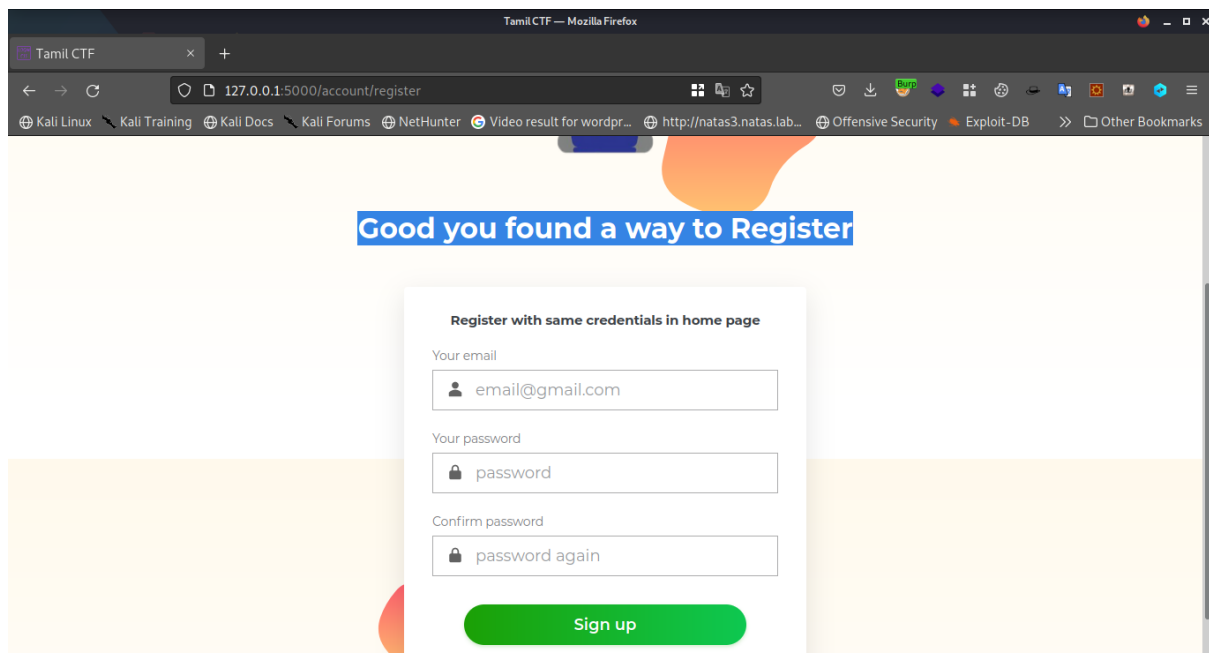
And whatever usermail and password we type it shows invalid username or password !



If we see that url <http://127.0.0.1:5000/account/login>

If we change that login to register we get register page as below

<http://127.0.0.1:5000/account/register>

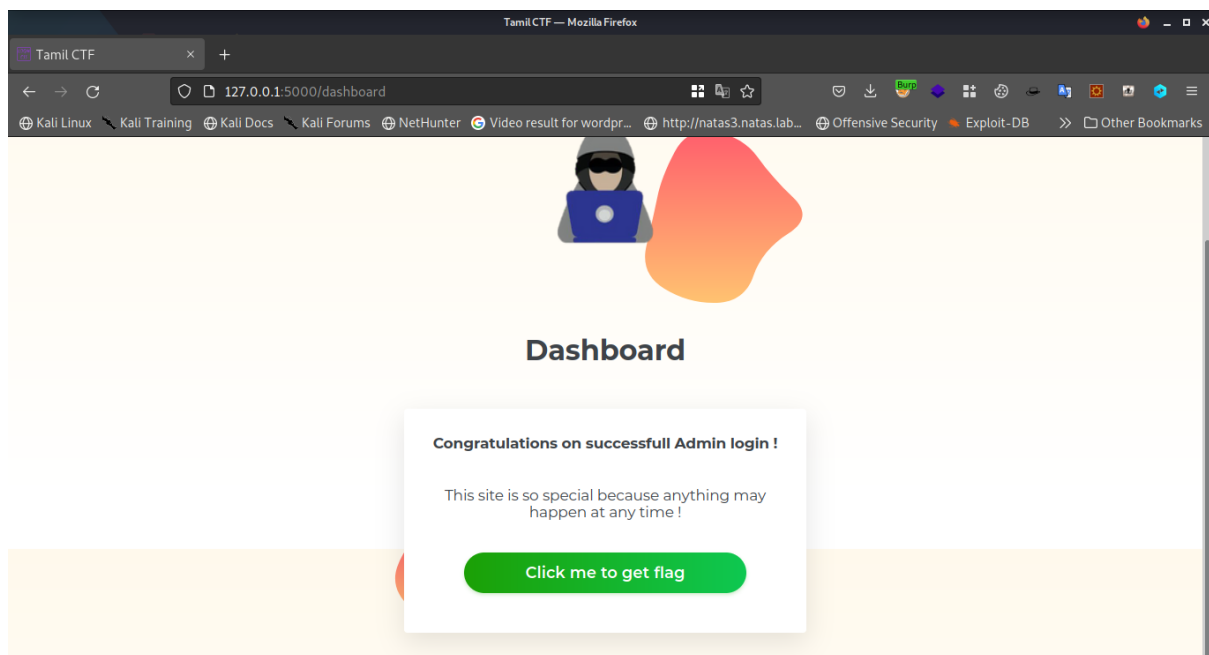


It is said to register with same credentials given in homepage

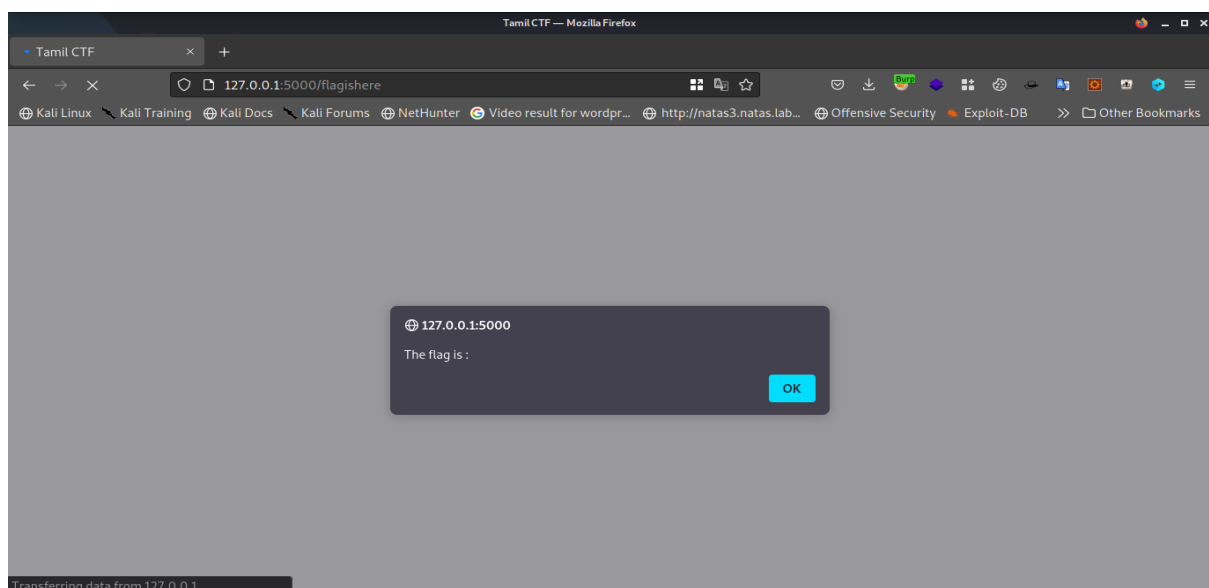
After registering with the same credentials

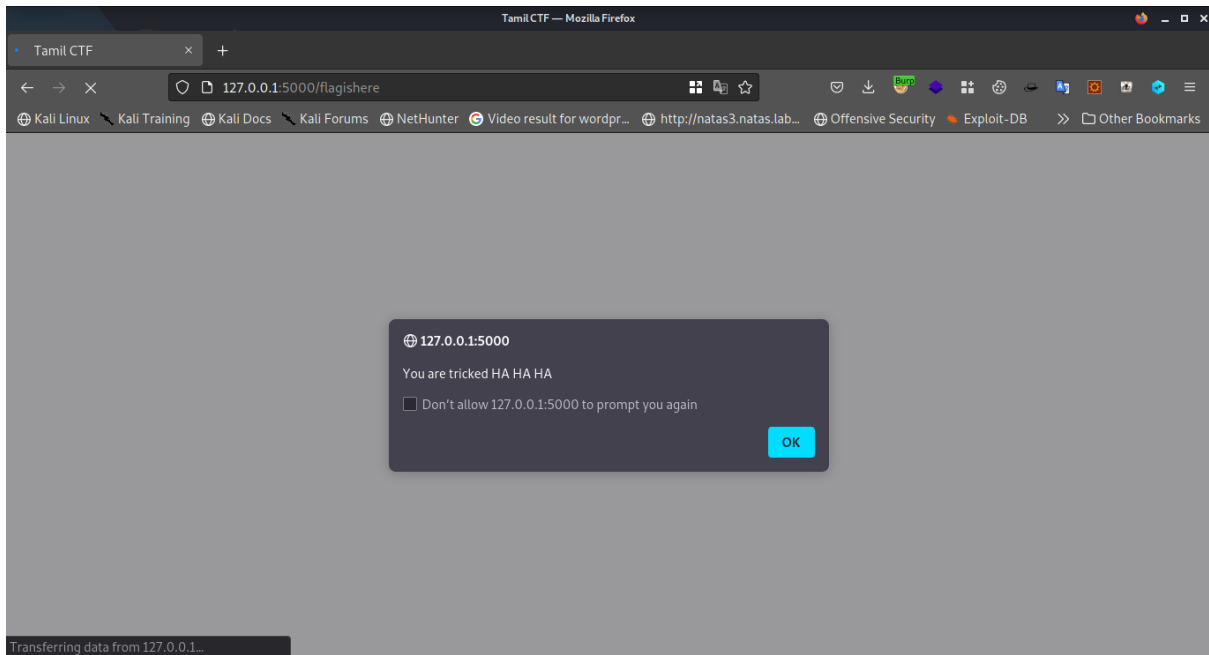
- [admin@tamilctf.com](mailto:admin@tamilctf.com)
- Secret\_password

We get the dashboard with congrats message !



There is a button , click me to get flag , once we click

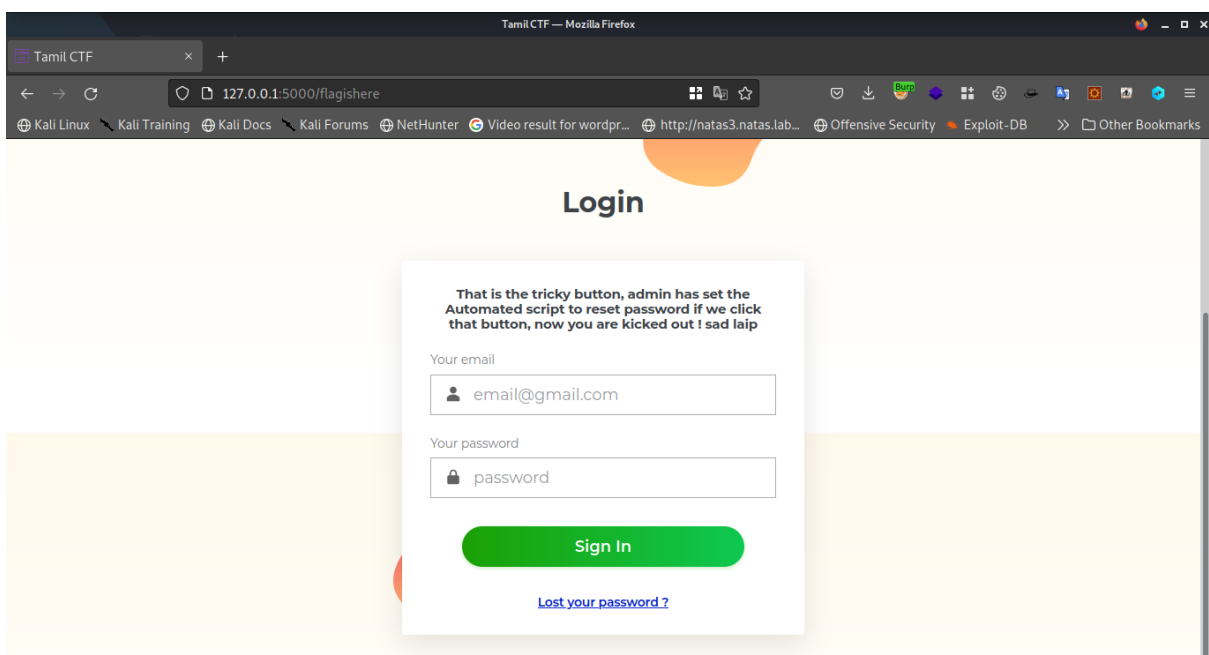




We get two alert boxes with the message shown in images after we click that button

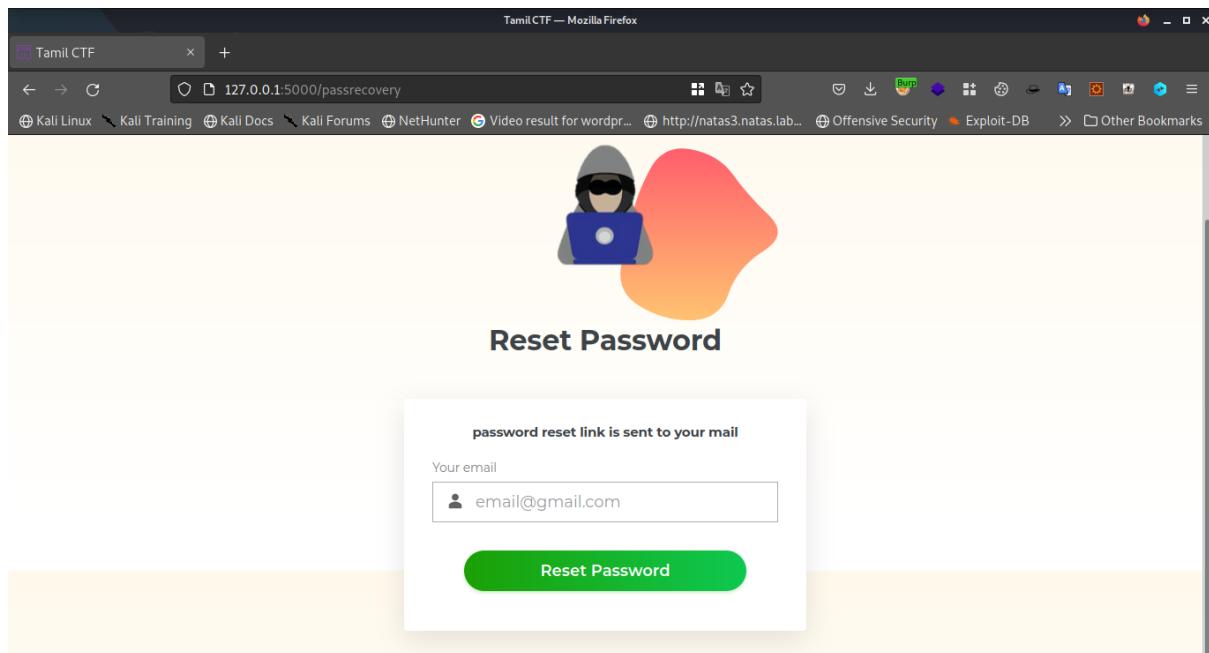
Then its mentioned that admin has set some automated script to protect his account by reset password whenever the button is clicked (tricky button)

Now the password has been reset ! so we cant use the credentials again

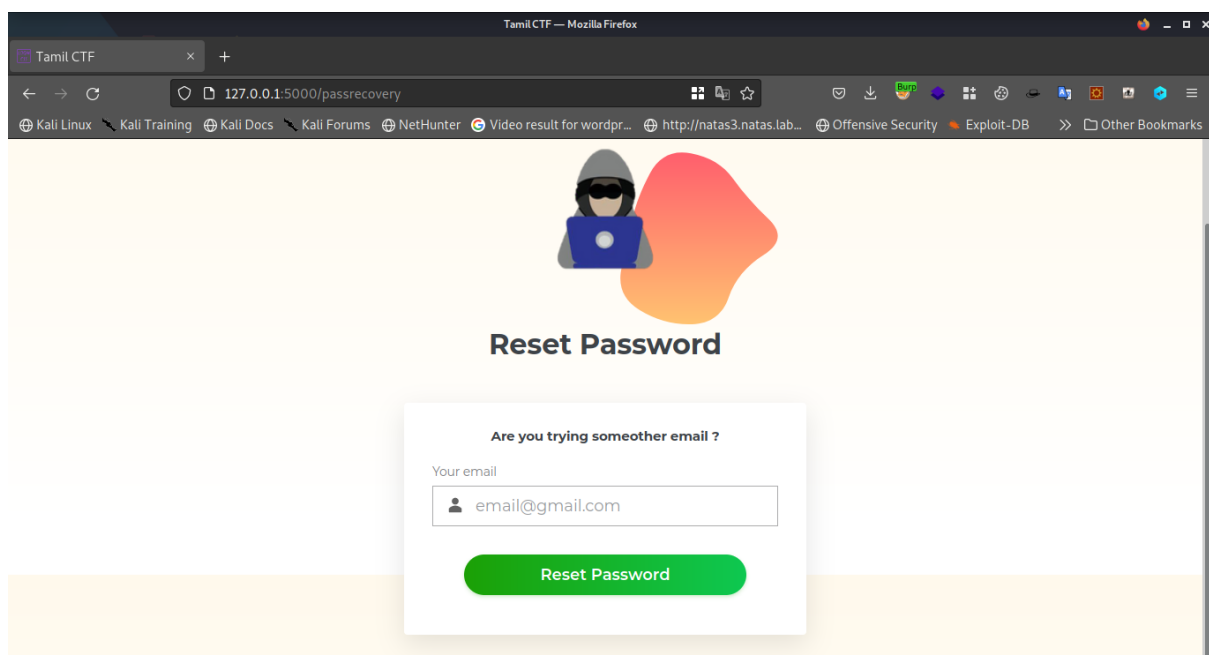


Now in this page we see a new option Lost your password ? section

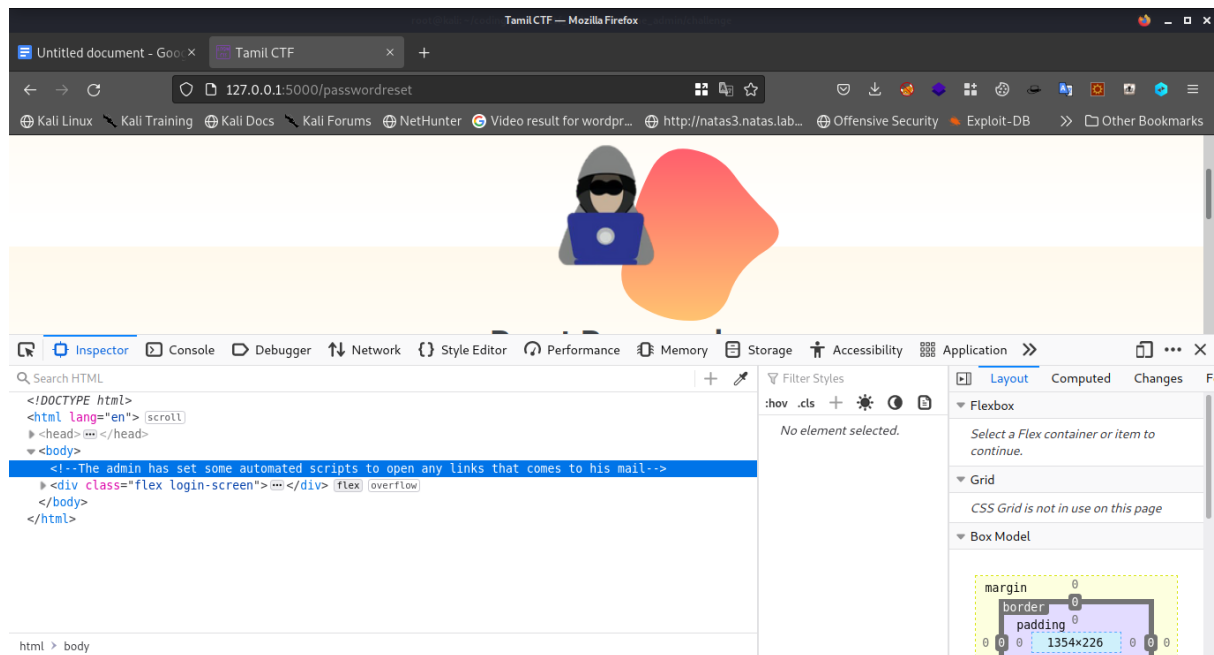
Clicking on this link leads to password recovery page and if we enter the mail and click reset password, “password reset link is sent to your mail” is displayed



If we try someone's email, it shows “Are you trying someone's email ?”

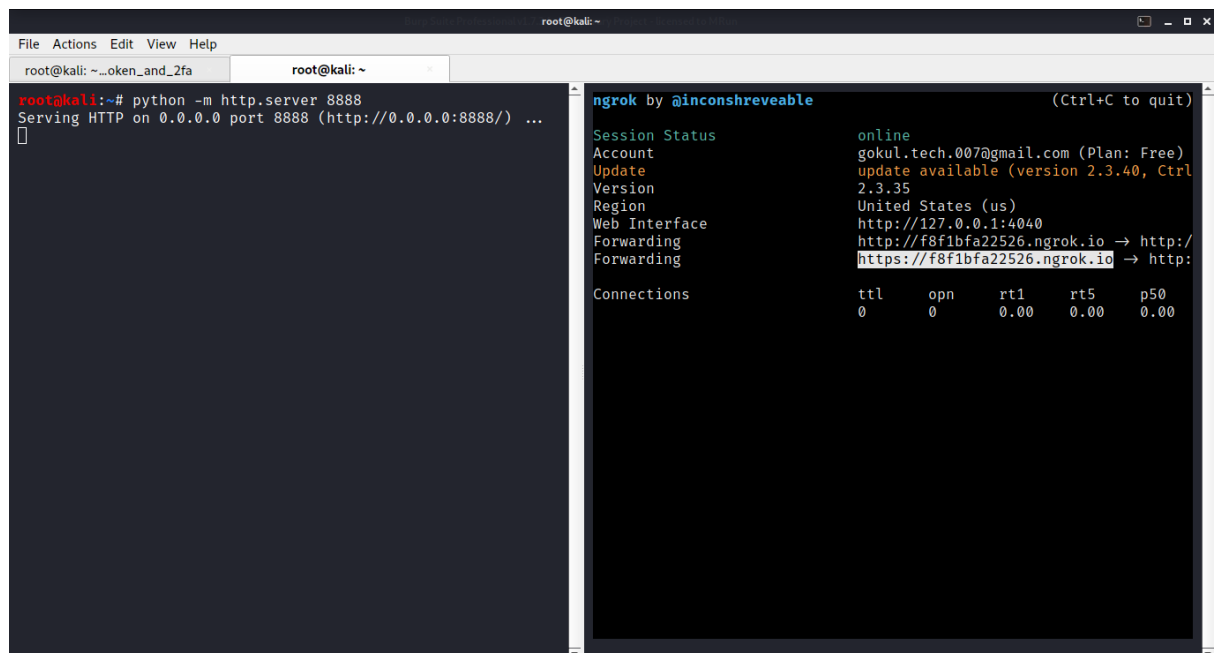


In this page's source code we can see a comment

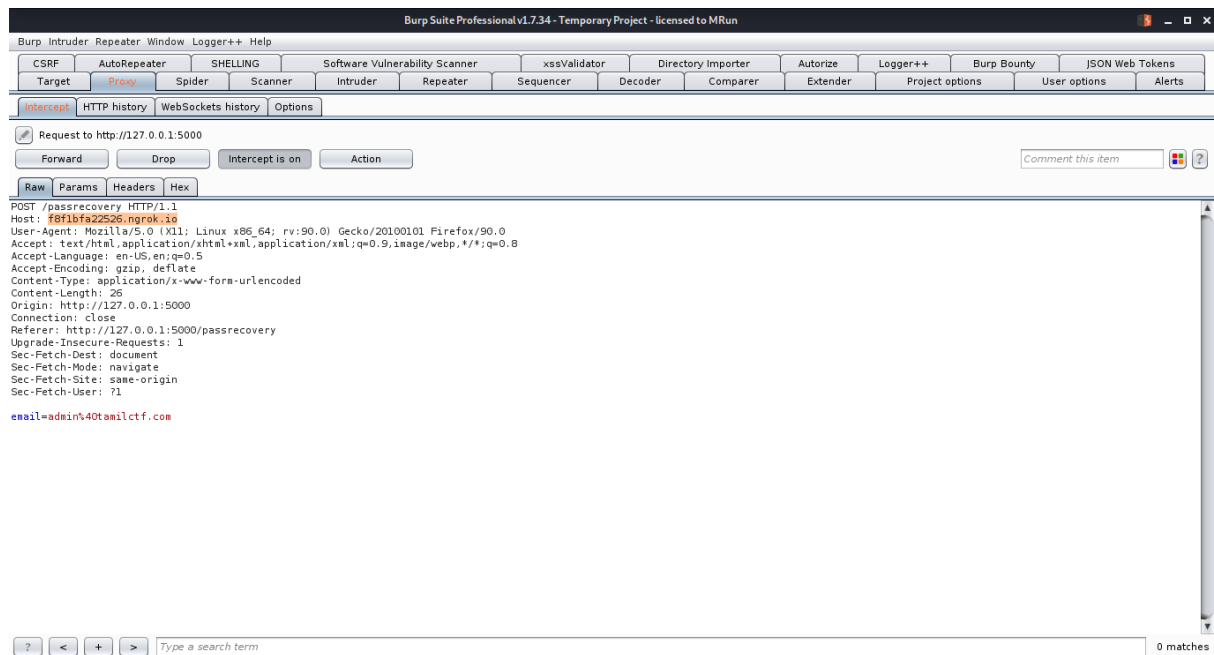


Which says “an automation script clicks any links that comes to his mail inbox” so this gives us a hint of host header injection !

So we can inject our host in the request, First make our ngrok server



Then copy the Ngrok URL and paste in Host section of the request



Once we edit our own host , the password reset link with our spoofed host is sent to admin email.

Ex: <http://somehost/reset?token=sometoken>

Since the automated script clicks any link that comes to the inbox , this link also will be clicked automatically !

Now lets see our ngrok logs for any incoming request



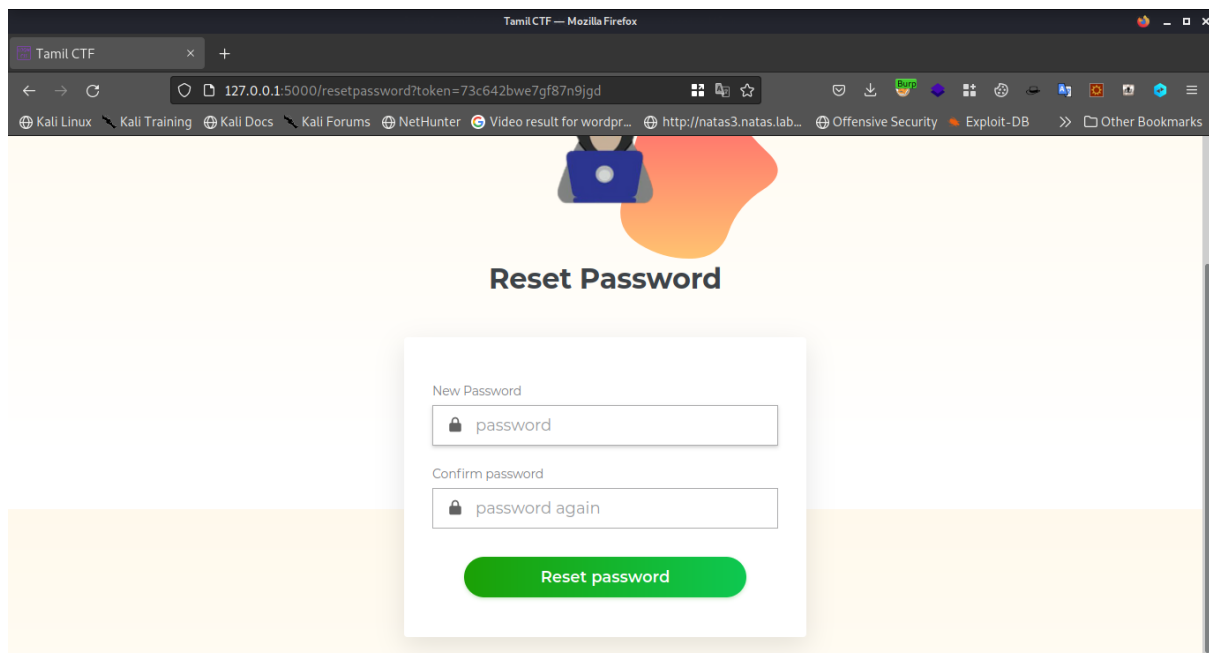
```
root@kali: ~
File Actions Edit View Help
root@kali: ~...oken_and_2fa root@kali: ~
root@kali:~# python -m http.server 8888
Serving HTTP on 0.0.0.0 port 8888 (http://0.0.0.0:8888/) ...
127.0.0.1 - - [07/Aug/2021 23:42:21] code 404, message File not found
127.0.0.1 - - [07/Aug/2021 23:42:21] "GET /resetpassword?token=73c642bwe7gf87n9jgd HTTP/1.1" 404 -

ngrok by @inconshreveable (Ctrl+C to quit)
Session Status      online
Account             gokul.tech.007@gmail.com (Plan: update available (version 2.3.4)
Update              2.3.35
Version
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding            http://f8f1bfa22526.ngrok.io → https://f8f1bfa22526.ngrok.io
Forwarding
Connections          ttl      opn      rt1      rt5
1         0       0.01    0.00
HTTP Requests
GET /resetpassword   404 File not found
```

Yes the link has been clicked by the bot and we got the password reset token of the admin !

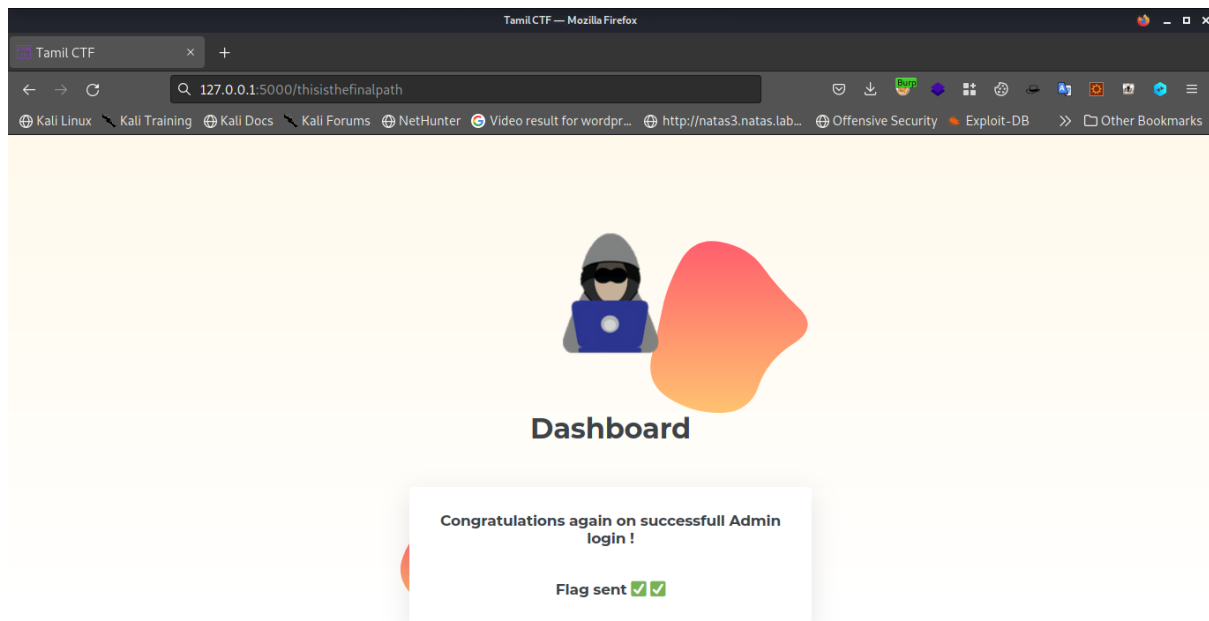
/resetpassword?token=73c642bwe7gf87n9jgd

Once we go to this path



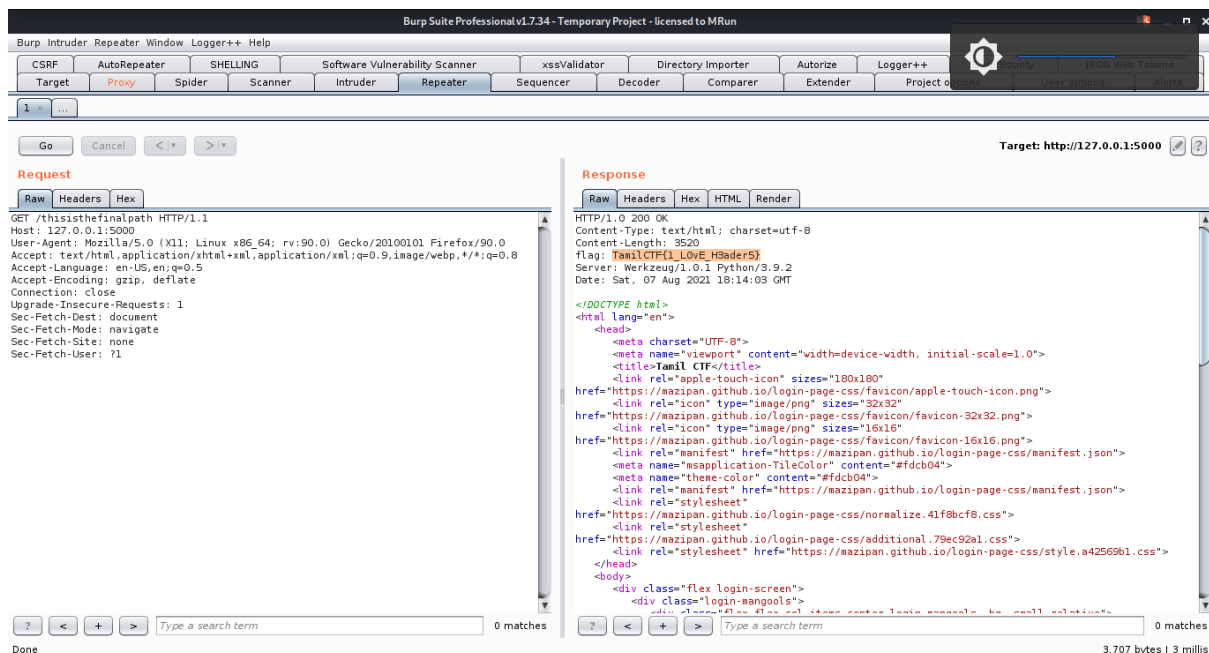
We got password reset page ! Lets reset password and click enter

Again we get the dashboard with congrats message and also it says flag sent !



But there is no flag in source code or cookies !

Lets check the response in Burpsuite



The flag is found at response header flag : TamilCTF{flag}