Boolean Blind SQLi Report - 17.6.1 - 17

Tester's name: Stanley Ford

Lab 17.6.1 "Boolean Blind SQLi":

• General information:

• Testing period: 15.02.2023

• Test object: http://51.250.73.193:5008/

• Description of actions:

So, the first thing I did was to check the code of the page and, surprisingly, I didn't find any source files with the code. However, I didn't expect to find anything interesting.

Since the lab is about SQLi, it makes sense to run the website through SQLmap and check it for vulnerabilities.

Now let's find out what databases there are on the site at all

:Right away, the tool tells me that the login and password input form may be vulnerable and offers to exploit it. I agree, and I get the following:

```
do you want to exploit this SQL injection? [Y/n] y
[22:40:30] [INFO] the back-end DBMS is PostgreSQL
web server operating system: Linux Debian 9 (stretch)
web application technology: Apache 2.4.25
back-end DBMS: PostgreSQL
[22:40:30] [WARNING] schema names are going to be used on PostgreSQL for enumeration as the counterpart to database names on other DBMSes
[22:40:30] [INFO] fetching database (schema) names
available databases [3]:
[*] information_schema
[*] pg_catalog
[*] public

[22:41:18] [INFO] you can find results of scanning in multiple targets mode inside the CSV file '/home/kali/.local/share/sqlmap/output/resul-
-02142023_1040pm.csv'

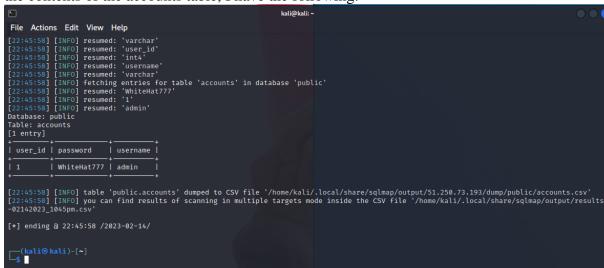
[*] ending @ 22:41:18 /2023-02-14/
```

Three databases were found: information_schema, pg_catalog, public. The site runs on PostgreSQL.

The third database is of interest. Let's go further and see what tables it has

:A single table with the loud name ACCOUNTS was found. So, I'm probably on the right track. Let's take a look at the columns of this table:

As expected, this table contains logins and passwords that can be dumped and I should get them in their pure form. They can then be used to log in to the site. After dumping the contents of the accounts table, I have the following:



The site is not popular and only one admin user is registered in it. I'll go under his name.



Flag found. Lab solved!

Self-Assessment Questions:

- List the tools (programs and utilities) you used to solve this lab:Web browser (Google Chrome); SQLmap
- List the vulnerabilities you discovered: Boolean Blind SQL Injection
- Give advice on how to improve security:

Check forms for the ability to enter special characters such as quotation marks, equal signs, and various parentheses. This should not be the case.

The introduction of two-factor authentication is also a way out.