

Ex. No: 4**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 Attack Box to run the instance of Kali Linux 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 LAB

The screenshot displays the 'SQL Injection' lab interface. At the top, a dark header bar contains the lab title 'SQL Injection' with a sub-description 'Learn how to detect and exploit SQL Injection vulnerabilities'. It also shows a difficulty level of 'Medium' and an estimated time of '30 min'. Below this, a row of buttons includes 'Share your achievement', 'Start AttackBox', 'Help', 'Save Room', a like count of '4589', and an 'Options' dropdown. A green progress bar indicates 'Room completed (100%)'. The main content area lists ten tasks, each with a green checkmark indicating completion: Task 1 (Brief), Task 2 (What is a Database?), Task 3 (What is SQL?), Task 4 (What is SQL Injection?), Task 5 (In-Band SQLi), Task 6 (Blind SQLi - Authentication Bypass), Task 7 (Blind SQLi - Boolean Based), Task 8 (Blind SQLi - Time Based), Task 9 (Out-of-Band SQLi), and Task 10 (Remediation). Each task bar has a dropdown arrow on the right.

SQL Injection
Learn how to detect and exploit SQL Injection vulnerabilities
Medium 30 min

Share your achievement Start AttackBox Help Save Room 4589 Options

Room completed (100%)

- Task 1 ✓ Brief
- Task 2 ✓ What is a Database?
- Task 3 ✓ What is SQL?
- Task 4 ✓ What is SQL Injection?
- Task 5 ✓ In-Band SQLi
- Task 6 ✓ Blind SQLi - Authentication Bypass
- Task 7 ✓ Blind SQLi - Boolean Based
- Task 8 ✓ Blind SQLi - Time Based
- Task 9 ✓ Out-of-Band SQLi
- Task 10 ✓ Remediation

Result:

Thus, the various exploits were performed using SQL Injection Attack in TryHackMe platform.