TASK 6

Overview

To use SQL Map to find the tables present in a vulnerable website's databases.

SQL Map

SQLMap is an open-source penetration testing tool designed for identifying and exploiting SQL injection vulnerabilities in web applications. SQL injection is a prevalent cybersecurity threat that occurs when malicious SQL code is injected into input fields on a website, enabling attackers to manipulate a database and potentially access sensitive data.

SQLMap automates the process of detecting and exploiting SQL injection vulnerabilities, making it a valuable tool for security professionals and ethical hackers. It operates by sending a series of SQL queries to the target application and analyzing the responses to determine whether SQL injection is possible. Once a vulnerability is identified, SQLMap can extract data, modify records, or even provide unauthorized access to the underlying database.

This tool is widely used to assess the security of web applications, helping organizations identify and remediate SQL injection issues before malicious hackers can exploit them. However, it is important to note that SQLMap should only be used with proper authorization and for legitimate security testing purposes to avoid legal and ethical concerns.

We use SQL Map on vulneb.com

```
Caramedi@bail:-|

Garamedi@bail:-|

Garamedi@bai
```

Using the command, we find out that there are two databases namely, acuart and information_schema.

We check the contents of the acuart database.

```
Caramet@Ball:- x Caramet@Ball:- x

[Caramet@Ball:- | Thisp://estphy.volumeb.com/artists.php?artists2'-O acoust --tables

[Caramet[Oball:- | Thisp://estphy.volumeb.com/artists.php?artists.php?artists.php?artists.php?artists.php?artists.php.volumeb.com/artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php?artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.artists.php.a
```

After the checking we found out that there were 8 tables.

Now we investigate the obtained user tables.

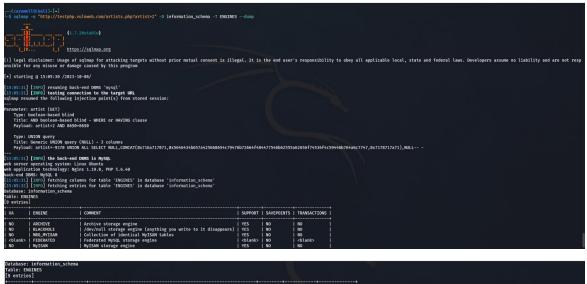


After the execution of the command, we find out that there is 1 user with the name "John Smith" and pass as "test".

We will be checking the contents of information_schema database now.

After the execution of command, we found out that there were 79 tables.

After looking into the ENGINES, the following is found:



	ENGINE	COMMENT			TRANSACTIONS
NO	ARCHIVE	Archive storage engine	YES	l NO	l NO
NO		/ /dev/null storage engine (anything you write to it disappears)		l NO	NO.
NO <blank></blank>	MRG_MYISAM FEDERATED	Collection of identical MyISAM tables Federated MySQL storage engine	YES <blank></blank>	I NO	NO <blank></blank>
NO	MyISAM	MyISAM storage engine	YES	NO	NO
NO	PERFORMANCE_SCHEMA		YES	l NO	NO
YES		Supports transactions, row-level locking, and foreign keys	DEFAULT		YES
NO NO	MEMORY CSV	Hash based, stored in memory, useful for temporary tables CSV storage engine	YES	l NO	NO NO

We get total info about the engines. From this obtained info, we can go into depth and analyze it.