

Getting Started with SQLMap

Upon starting using SQLMap, the first stop for new users is usually the program's help message. To help new users, there are two levels of help message listing:

```
Getting Started with SQLMap
```

```
MisaelMacias@htb[/htb]$ sqlmap -h

      _
     _||_
    /___\ {1.4.9#stable}
   |__| . [|]_____|. [|]
   |___| [.]_|_|_|_|_|_|_|_|
       |_V...         |_| http://sqlmap.org

Usage: python3 sqlmap [options]


Options:
-h, --help            Show basic help message and exit
-hh                   Show advanced help message and exit
--version              Show program's version number and exit
-v VERBOSE             Verbosity level: 0-6 (default 1)


Target:
At least one of these options has to be provided to define the target(s)

-u URL, --url=URL      Target URL (e.g. "http://www.site.com/vuln.php?id=1")
-g GOOGLE_DORK          Process Google dork results as target URLs
...SNIP...
```

- **Advanced Listing** shows all options and switches (switch **-hh**):

[illegible]

For more details, users are advised to consult the project's [wiki](#), as it represents the official manual for SQLMap's usage.

Basic Scenario

In a simple scenario, a penetration tester accesses the web page that accepts user input via a **GET** parameter (e.g., **id**). They then want to test if the web page is affected by the SQL injection vulnerability. If so, they would want to exploit it, retrieve as much information as possible from the back-end database, or even try to access the underlying file system and execute OS commands. An example SQLi vulnerable PHP code for this scenario would look as follows:

```
Code: php

$link = mysqli_connect($host, $username, $password, $database, 3306);
$sql = "SELECT * FROM users WHERE id = " . $_GET["id"] . " LIMIT 0, 1";
$result = mysqli_query($link, $sql);
if (!$result)
    die("<b>SQL error:</b> " . mysqli_error($link) . "<br>\n");
```

As error reporting is enabled for the vulnerable SQL query, there will be a database error returned as part of the web-server response in case of any SQL query execution problems. Such cases ease the process of SQLi detection, especially in case of manual parameter value tampering, as the resulting errors are easily recognized:

 Cheat Sheet

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Skills Assessment

Skills Assessment

My Workstation

OFFLINE

Start Instance

00 / 1 spawns left

Why do we use it?

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

