

A detailed report on SQL injection attacks

SQL injection is to attack data driven applications by inserting them

Malicious SQL statements in input fields require security measures

Types of SQL injection attacks:

The severity scale ranges from 1 to 5

1 is the lowest, 5 is the highest

1. In-Band SQL Injection: It is very common that an attacker uses the same

A communication channel to launch an attack and gather results.

Severity: 3

2. Error based SQL injection: Error generated from database

Collect information.

Severity: 4

3. Blind SQL Injection: Involves sending SQL queries to the database,

The validity of the query is based on the response of the application.

Severity: 5

4. UNION BASED SQL INJECTION: UNION executes the result of the SQL operator

Information from database.

Severity: 2

Prevention:

Use parameterized queries or prepared statements.

Validate and sanitize user inputs.

Apply least privilege policies to database accounts

Update and patch your software regularly.

Enable input validation on both client and server sides

A web application firewall to filter and monitor incoming traffic

Use stored procedures or ORM frameworks.

Sec proper error handling to avoid revealing sensitive information

Utilize security-focused coding practices and frameworks

Perform security audits and penetration tests regularly.

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