Talos Vulnerability Report

TALOS-2020-1206

OpenClinic GA Web portal SQL injection vulnerability in 'manageServiceStocks.jsp' page

APRIL 13, 2021

CVE NUMBER

CVE-2020-27232

Summary

An exploitable SQL injection vulnerability exists in 'manageServiceStocks.jsp' page of OpenClinic GA 5.173.3. A specially crafted HTTP request can lead to SQL injection. An attacker can make an authenticated HTTP request to trigger this vulnerability.

Tested Versions

OpenClinic GA 5.173.3

Product URLs

https://sourceforge.net/projects/open-clinic/

CVSSv3 Score

6.4 - CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:C/C:L/I:L/A:N

CWE

CWE-89 - Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection')

Details

OpenClinic GA is an open source fully integrated hospital management solution.

FindServiceUid parameter in manageServiceStocks.jsp page is vulnerable to authenticated SQL injection. The following request would trigger the vulnerability:

POST /openclinic/main.do?Page=pharmacy/manageServiceStocks.jsp&ts=1603981647838 HTTP/1.1
Referer: http://[IP]:10080/openclinic/main.do?Page=pharmacy/manageServiceStocks.jsp&ts=1603981646619
Cache-Control: max-age=0
Accept: text/html.application/xhtml*xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-GB
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.102 Safari/537.36
Edge/18.18362
Accept-Encoding: gzip, deflate
Content-Length: 750
Host: [IP]:10080
Cookie: JSESSIONID=C3AEAECEA33285FCCE9E02171E8B3FA1
Connection: close

FindStockName=&FindServiceUid=

SQLINJECTION>6FindServiceName=6FindBegin=6FindEnd=6FindManagerUid=6FindManagerName=6FindDefaultSupplierUid=6FindDefault SupplierNameNametEnd=EditManagerUid=46EditManagerName=test6AuthorizedUserIdAdd=6AuthorizedUserNameAdd=6EditAuthorizedUsers=6DispainsigUserNameIdAdd=6EditAuthorizedUsers=6DispainsigUserNameIdSerNameAdd=6Edit t DispensingUserSer=6ValidationUserSer=6ValidationUserNameAdd=6Edit t DispensingUsers=6ValidationUserIdAdd=6ValidationUserNameAdd=6EditValidtionUsers=6EditDefaultSupplierUid=is 6EditOrderPeriodIn Months=16EditNosync=16EditHidden=16EditValidateOutgoing=16Action=find6EditStockUid=-16DisplaySearchFields=false6DisplayActive ServiceStocks=

The above vulnerability is triggered due to dynamic use of FindServiceUid paremter when the find action is invoked as seen below:

In the function call to ServiceStock.find, an SQL query is created and, eventually, executed when the function below is called in the be.openclinic.pharmacy.SeviceStock class:

Timeline

2020-11-19 - Initial contact

2020-12-07 - 2nd contact; copy of advisories issued and vendor acknowledged receipt

2021-02-01 - 60 day follow up: no response

2021-03-09 - 90 day follow up; no response

2021-03-22 - Final notice

2021-04-13 - Public disclosure

CREDIT

Discovered by Yuri Kramarz of Cisco Talos.

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