

No CSRF protection on the password change form

Details

Type:	Bug	Resolution:	Fixed
Priority:	Major	Fix Version/s:	12.10.5, (1)
Affects Version/s:	1.3 M2		
Component/s:	Web - Templates & Resources		
Labels:	attacker_quest csrf security		
Difficulty:	Easy		
Documentation:	N/A		
Documentation in	N/A		
Release Notes:			
Similar issues:			

Description

<p>There is no protection against CSRF type attacks on the password change form. The form_token parameter is not checked on the server side. It is possible to create a request without this parameter, and the password will be changed.</p> <p>It is therefore very easy, under the condition of tricking an administrator, to be able to change the password of any user of the Wiki.</p> <p>Here is an example of a query that allows you to change a password (user toto) on the current stable version of XWiki (POST and GET methods are possible):</p> <p>GET /xwiki/bin/view/XWiki/toto?xpage=passwd&xwikipassword=aaaaaaa&xwikipassword2=aaaaaaa HTTP/1.1 Host: 127.0.0.1:8080 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,/q=0.8 Accept-Language: en-GB,en;q=0.5 Accept-Encoding: gzip, deflate Origin: http://127.0.0.1:8080 Connection: close Referer: http://127.0.0.1:8080/xwiki/bin/view/XWiki/toto?xpage=passwd Cookie: JSESSIONID=1AC1B58E461B85FBE5E1C980197C5A64; username="XXX"; password="XXX"; rememberme="false"; validation="XXX"</p>
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Issue Links

links to
Github security advisory

Activity

Newest first
<div>Simon Urli added a comment - 08/Nov/21 17:07</div> <p>Note that this ticket is not about being able to change the password of the currently logged-in user, but about any other user: there's a protection when changing its own password by checking the old password.</p> <p>So the reproduction steps are:</p> <ol style="list-style-type: none">create a user, e.g. Foologin with an Admin user (since admin can change password of other users)Go to a forged URL (such as the one shown in description or in the previous comment for previous versions)
<div>Simon Urli added a comment - 19/Mar/21 15:04 - edited</div> <p>AFAICS the passwd.vm was introduced as part of XWiki-2114 so the issue exist since 1.3M2 probably.</p>
<div>Simon Urli added a comment - 19/Mar/21 14:58</div> <p>Investigating on when exactly the issue sarterd, note that before 11.9 (and XWiki-16623) the issue was already existing but the password reset was done with different parameters. The way to reproduce is with using an URL such as:</p> <div>http://localhost:8080/xwiki/bin/view/XWiki/Foo?xpage=passwd&password=totototo&password2=totototo</div>
<div>Simon Urli added a comment - 15/Mar/21 14:52</div> <p>I made a mistake and I actually fixed the ResetPassword page</p> <p>So to be a bit more clear, I thought first this issue was related to ResetPassword so I bulletproof it a bit in my first commit, before realizing that it wasn't related to it, but to the usage of the register macros. I properly fixed those afterwards. What's provided in the description (not related to ResetPassword) is accurate.</p>
<div>Simon Urli added a comment - 03/Mar/21 15:22</div> <p>Reopening: I made a mistake and I actually fixed the ResetPassword page, but not the passwd xpage...</p>

People

Assignee:
Simon Urli
Reporter:
Pierrick Vuillemin
Votes:
0 Vote for this issue
Watchers:
2 Start watching this issue

▼ Dates

Created:

07/Feb/21 18:34

Updated:

07/Jul/22 10:20

Resolved:

03/Mar/21 17:20

Date of First Response:

03/Mar/21 3:22 PM