Stored Cross Site Scripting (XSS) in parameter rp4wp[heading_text] in barrykooij/related-posts-for-wp

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Valid Reported on Oct 5th 2022

Description

The Related Posts for WordPress plugin is vulnerable to stored XSS, specifically in the rp4wp[heading_text] parameter because the user input is not properly sanitized, allowing the insertion of JavaScript code that can exploit the vulnerability.

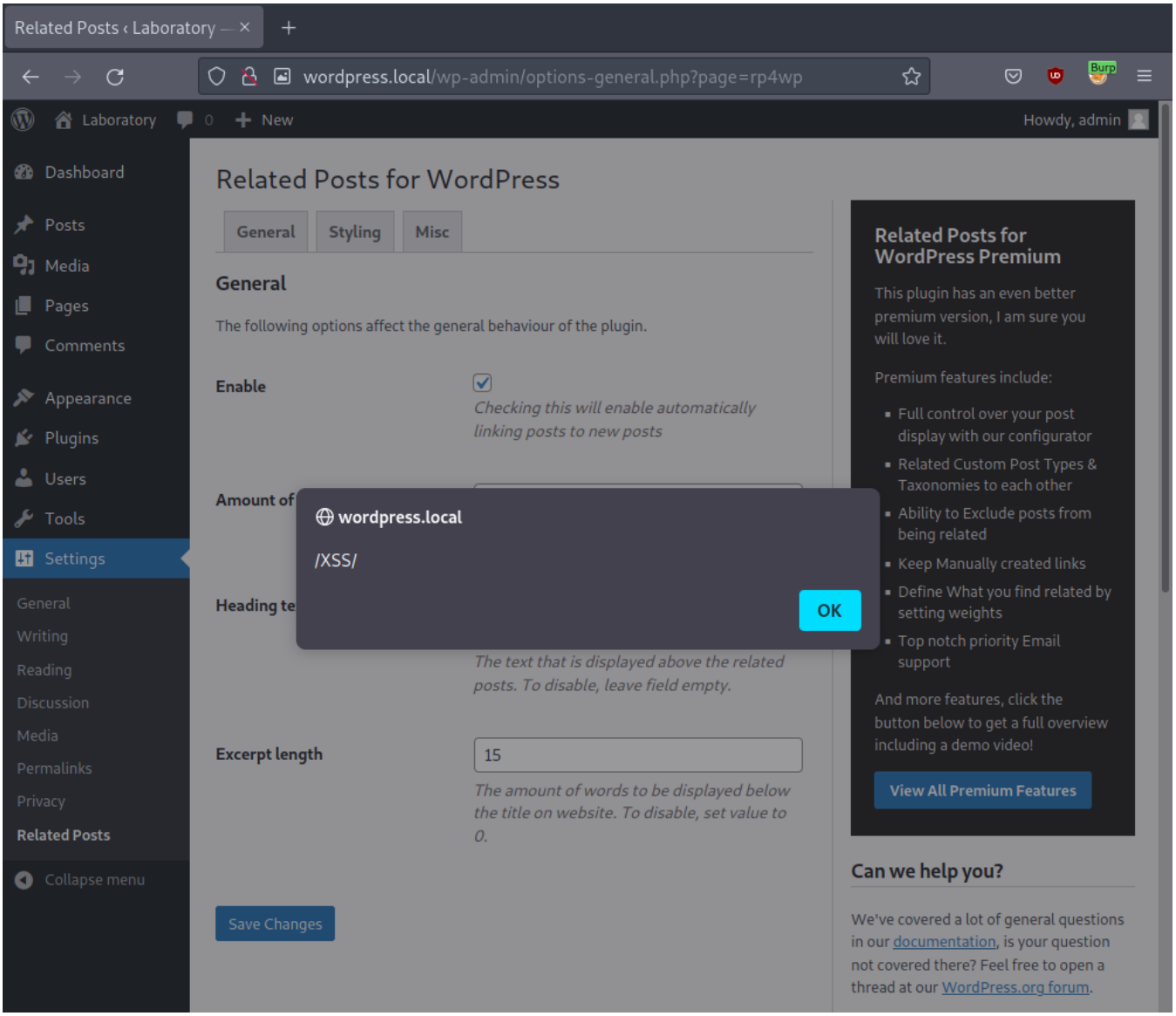
Proof of Concept

1 - Install and activate version 2.1.2 of the plugin.
2 - Go to the plugin settings panel (http://[TARGET]/wp-admin/options-general.php?page=rp4wp).
3 - Insert the following payload in the "Heading text" field:

```
" autofocus onfocus=alert(/XSS/)>
```

4 - Save the changes and immediately the popup window demonstrating the vulnerability (PoC) will be executed.

Evidence



Impact

This vulnerability would potentially allow attackers to hijack the user's current session, steal relevant information, deface the website or direct users to malicious websites, and there is even the possibility of escalating the level of exploitation or more advanced attacks (for example, create privileged users on the WordPress instance, upload a backdoor or even establish a reverse connection).

Occurrences

class-settings.php L212

CVE
CVE-2022-3506

(Published)

Vulnerability Type
CWE-79: Cross-site Scripting (XSS) - Stored

Severity
Medium (5.5)

Registry
Other

Affected Version
2.1.2

Visibility
Public

Status
Fixed

Found by

Juampa Rodríguez
@und3sc0n0c1d0
legend

Fixed by

Barry Kooij
@barrykooij
unranked

This report was seen 834 times.

We are processing your report and will contact the **barrykooij/related-posts-for-wp** team within 24 hours. 2 months ago

We have contacted a member of the **barrykooij/related-posts-for-wp** team and are waiting to hear back 2 months ago

We have sent a follow up to the **barrykooij/related-posts-for-wp** team. We will try again in 7 days. 2 months ago

days. 2 months ago

Barry Kooij validated this vulnerability 2 months ago

Juampa Rodríguez has been awarded the disclosure bounty ✔

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

Juampa 2 months ago Researcher

@maintainer Is it okay with you if I am assigned a CVE for this vulnerability?

We have sent a fix follow up to the **barrykooij/related-posts-for-wp** team. We will try again in 7 days. a month ago

Barry Kooij a month ago Maintainer

@Juampa Rodríguez I'm not sure how to do that.

Barry Kooij a month ago Maintainer

Fixed on master branch https://github.com/barrykooij/related-posts-for-wp/commit/37733398dd88863fc0bdb3d6d378598429fd0b81

Will release update later today.

Juampa a month ago Researcher

@maintainer I will be happy to re-validate the vulnerability once I have the fixed version of your source code.

@admin, could you please provide me with a new CVE for this vulnerability?

Barry Kooij marked this as fixed in **2.1.3** with commit **377333** a month ago

Barry Kooij has been awarded the fix bounty ✔

This vulnerability will not receive a CVE ✖

class-settings.php#L212 has been validated ✔

Barry Kooij published this vulnerability a month ago

Ben Harvie a month ago Admin

This report has now been assigned a CVE as requested and it will publish momentarily. Happy hunting:)

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