

[← Back to all zero days](#)

## Stored Cross-Site Scripting in WordPress [Post Duplicator Plugin - 2.23]

AFFECTED  
VENDOR  
WordPress

STATUS  
Fixed

DATE  
Dec 2, 2021



Medium Severity

[Description](#) [Proof of concept \(POC\)](#) [Impact](#) [Remediations](#) [Timeline](#)

### Description

A cross-site scripting (XSS) attack can cause arbitrary code (javascript) to run in a user's browser while the browser is connected to a trusted website. The application targets your application's users and not the application itself, but it uses your application as the vehicle for the attack. The XSS payload executes whenever the user opens the Settings Page of the Post Duplicator Plugin or the application root page after duplicating any of the existing posts.

### Proof of concept: (POC)

The following vulnerability was discovered in Post-Duplicator Plugin 2.23.

**Issue:** Stored Cross-Site Scripting

**Note:** Here, localhost has been used for testing the application locally.

1. Login to the WordPress application.
2. Install Post Duplicator Plugin.
3. Go to the 'Tools' menu of WordPress and click on the 'Post Duplicator' button.



#### Affected Vendor

WordPress

#### Bug Name

Stored Cross-Site Scripting

#### CVE Number

[CVE-2021-33852](#)

#### CWE ID

CWE-79

#### CSW ID

2021-CSW-12-1053

#### CVSSv3 Score

6.1

#### Affected Version

Plugin - 2.23

#### Severity

Medium

#### Affected Product

Post-Duplicator Plugin 2.23



**Figure 01:** Post Duplicator Settings Page

4. Enter the payload - Duplicate Post"><script>alert(document.cookie)</script> in the 'Duplicate Title' field (mtphr\_post\_duplicator\_settings[title] parameter).



**Figure 02:** Entering XSS payload in the 'Duplicate Title' field

5. Enter the payload - Hello World!><script>alert(document.cookie)</script> in the 'Duplicate Slug' field (mtphr\_post\_duplicator\_settings[slug] parameter).



**Figure 03:** Entering XSS payload in the 'Duplicate Slug' field

6. Click on the 'Save Changes' button to save changes.
7. Go to the Post Duplicator Settings page at tools.php?page=mtphr\_post\_duplicator\_settings\_menu



**Figure 04:** Injected XSS payload is executed displaying an alert box with the contents of the user's cookies.

8. Another use case of this vulnerability is when the post is duplicated after injecting the XSS payload in the settings page.



**Figure 05:** Duplicate the "Hello world!" post

9. Once the post is duplicated, the title of the duplicated post will append the name we specified in the `mtphr_post_duplicator_settings[title]` parameter.



**Figure 06:** Duplicated post with XSS Payload

10. Now navigate to the application root to view the posts.



**Figure 07:** Injected XSS payload is executed displaying an alert box with the contents of the user's cookies.



**Figure 08:** The default cross-site scripting mitigation setting in wp.config file to prevent cross-site scripting attacks

### Impact

An attacker can perform the following:

- Inject malicious code into the vulnerable variable and exploit the application through the cross-site scripting vulnerability.
- Modify the code and get the session information of other users
- Compromise the user machine.

### Remediations

- Perform context-sensitive encoding of entrusted input before it is echoed back to a browser using an encoding library throughout the application.
- Implement input validation for special characters on all the variables reflected in the browser and stored in the database.
- Explicitly set the character set encoding for each page generated by the webserver.
- Encode dynamic output elements and filter specific characters in dynamic elements.

### Timeline

**Dec 28, 2021:** Discovered in 'Post Duplicator Plugin - 2.23' Product

## Additional Notes

[Security Advisory Published by WordPress](#)

## Discovered by

Cyber Security Works Pvt. Ltd.

**Talk to CSW's team of experts to secure your landscape.**

[Schedule free consultation](#)



Cyber Security Works helps reduce security debt and inherent vulnerabilities in an organization's infrastructure and code. We work with large public, private, and start-up companies and help them prioritize their vulnerabilities.



## Resources

- [Ransomware](#)
- [Cyber Risk Series](#)
- [Blogs](#)
- [Patch Watch](#)
- [Data Sheets](#)
- [White Papers](#)
- [Zero Days](#)
- [Glossary](#)
- [Events](#)
- [CISA-KEV](#)

## Partner

[Become a Partner](#)

## Quick Links

- [About Us](#)
- [Contact Us](#)
- [Careers](#)
- [Services](#)
- [Media Coverage](#)
- [Cybersecurity month](#)
- [Predictions for 2022](#)
- [Cybersecurity for govt](#)
- [Hackathon](#)

[Sitemap](#) [Privacy Policy](#) [Customer Agreements](#)  
© 2022 - Cyber Security Works