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# CSW Zero Days | Reflected Cross-Site Scripting in WordPress

AFFECTED STATUS DATE VENDOR

Fixed Mar 25, 2022

Welaunch



Description	Proof of concept (POC)	<u>Impact</u>	Remediations	<u>Timeline</u>

# Description

Reflected Cross-Site Scripting attacks are also known as non-persistent attacks which occur when a malicious script is reflected back from a web application to the victim's browser. The script is activated through a link, which sends a request to the website with a vulnerability that enables the execution of malicious scripts.

# Proof of concept: (POC)

- 1. After installing the Country Selector Plugin, go to the homepage of the WordPress site.
- 2. Capture all the requests and find the POST request to the AJAX call of check\_country\_selector.



Figure 01: Original AJAX Request

3. Enter the payload - <img+src=x+onerror=alert(document.cookie)> in the country parameter and <img+src=x+onerror=alert(document.cookie)> in the lang parameter.



#### Affected Vendor

Welaunch

#### **Bug Name**

Reflected Cross-Site Scripting

#### **CVE Number**

CVE-2022-28290

#### **CWE ID**

CWE-79

## CSW ID

2022-CSW-03-1055

## CVSSv3 Score

6.1

## **Affected Version**

Version 1.6.5

## Severity

Medium

## **Affected Product**

WordPress Country Selector



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5. Injected XSS payload will be reflected and triggered on the user's browser.

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Process of Programme Manufactures planting and Process to Security (Process Security Process Security Securit
```

**Figure 03:** Injected JavaScript Code for "lang" and "country" Parameters is Executed On The User's Browser

```
GNU nano 4.8

/**

** WordPress database table prefix.

** You can have multiple installations in one database if you give each
** a unique prefix. Only numbers, letters, and underscores please!

**

** For developers: WordPress debugging mode.

** Change this to true to enable the display of notices during development.

** It is strongly recommended that plugin and theme developers use WP_DEBUG

** In their development environments.

**

** For information on other constants that can be used for debugging,

** visit the documentation.

**

** glink https://wordpress.org/support/article/debugging-in-wordpress/

**

**Gefine('DISALLOW_UNFILTERED_HTML', true);

define('WP_DEBUG', false');

/* Add any custom values between this line and the "stop editing" line. */

/* That's all, stop editing! Happy publishing. */

/* Absolute path to the WordPress directory. */

if ('define('ABSPATH', DR_. '/');
```

**Figure 04:** The Default Cross-Site Scripting Mitigation Setting in wp.config file to Prevent XSS 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 that are reflected in the browser and stored in the database.
- · Evolicitly set the character set encoding for each name generated by the

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March 24, 2022: Discovered in 'WordPress Country Selector Plugin Version 1.6.5'

Product

March 25, 2022: Reported to Welaunch

March 29, 2022: Acknowledged by Welaunch

March 30, 2022: Vendor Released Patch for XSS Vulnerability

March 31, 2022: CSW Assigned the CVE-2022-28290

# Discovered by

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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.





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