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CSW Zero Days | Reflected Cross-Site Scripting in WordPress

AFFECTED VENDOR	STATUS	DATE
Welaunch	Fixed	Mar 25, 2022

Description | Proof of concept (POC) | Impact | Remediations | Timeline

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

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

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

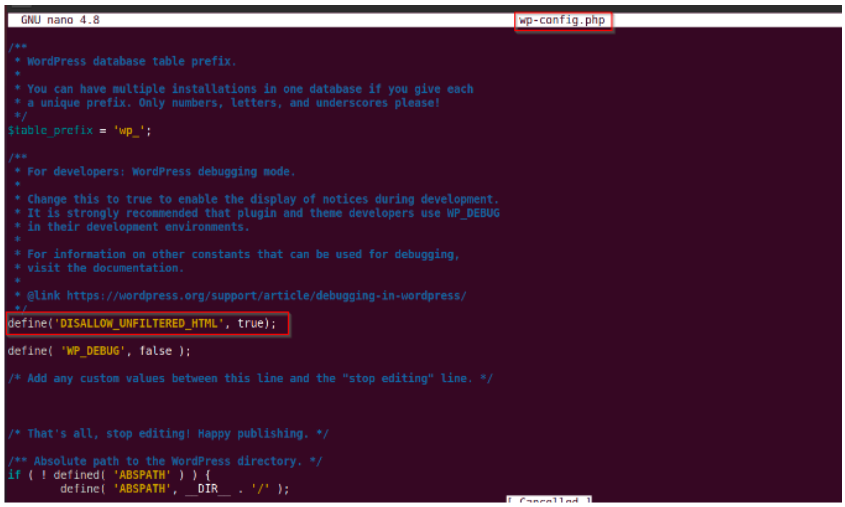

Figure 04: *The Default Cross-Site Scripting Mitigation Setting in wp.config file to Prevent XSS Attacks*

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.
- Explicitly set the character set encoding for each page generated by the

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

Cyber Security Works Pvt. Ltd.