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Stored cross site scripting (XSS) in WordPress Microsoft Clarity Plugin

STATUS DATE AFFECTED VENDOR Oct 18, 2021 Fixed Microsoft



Proof of concept (POC) Description Impact Remediations Timeline Description Affected Vendor A Cross-Site Scripting vulnerability in Microsoft Clarity version 0.3 can cause arbitrary code to run in a user's browser while the browser is connected to a trusted website. The XSS payload executes whenever the user changes the clarity configuration in Microsoft Clarity version 0.3 stored on the configuring project ID page. Bug Name CVE Number CVE-2021-33850 Proof of concept: (POC) CWE ID The following vulnerability was detected in WordPress Microsoft Clarity Plugin version 0.3. 1. Log in to the WordPress application. CSW ID 2020-CSW-10-1050 2. Install Microsoft Clarity plugin to your WordPress application. CVSSv3 Score Affected Version version 0.3 Severity Affected Product Microsoft Clarity version 0.3 Figure 1: Microsoft Clarity Plugin Installation 3. Click on Settings, and the Clarity Setting page appears.

Figure 2: Microsoft Clarity Settings Page

4. In the Clarity Settings page, enter the payload in the 'project ID' section (clarity_project_id parameter).



Figure 3: Entering Encoded Xss Payload in the Project ID section

5. Injected XSS payload gets executed whenever the user changes the clarity



Figure 4: Injected XSS Payload Executed and Displays an Alert Box

Impact

An attacker can control a script executed in the victim's browser and fully compromise the targeted user. In addition, an XSS vulnerability enables attacks that are contained within the application itself. There is no need to find an external way of inducing the victim to make a request containing their exploit. Instead, the attacker places the exploit inside the application itself and simply waits for users to encounter it, thus, resulting in the following --

- Stealing cookies,
- End-user files disclosure,

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ut before it is echoed back

- Implement input validation for special characters on all the variables reflected in the browser and stored in the database.
- 3. Implement client-side validation.



Figure 5: Cross-Site Scripting Mitigation Setting in the wp.config File Prevents Cross-site Scripting Attacks

Timeline

17 October 2021: Discovered in Microsoft Clarity version 0.3

20 October 2021: Reported to WordPress Team.

20 October 2021: WordPress acknowledged.

25 October 2021: Microsoft Clarity Plugin fixed the issue.

07 November 2021: CSW Assigned the CVE Identifier [CVE-2021-33850]

Additional Notes

Security Advisory Published by WordPress.

Discovered by

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