

Unauthenticated XSS Vulnerability Patched in HTML Email Template Designer Plugin

On December 23, 2021 the Wordfence Threat Intelligence team initiated the responsible disclosure process for a vulnerability we discovered in "WordPress Email Template Designer – WP HTML Mail", a WordPress plugin that is installed on over 20,000 sites. This flaw made it possible for an unauthenticated attacker to inject malicious JavaScr that would execute whenever a site administrator accessed the template editor. This vulnerability would also allow the to modify the email template to contain arbitrary data that could be used to perform a phishing attack against anyon who received emails from the compromised site.

<u>Wordfence Premium</u> users received a firewall rule to protect against any exploits targeting this vulnerability on December 23, 2021. Sites still using the free version of Wordfence will receive the same protection on January 22, 20

We sent the full disclosure details to the developer on January 10, 2022, after multiple attempts to contact the developer and eventually receiving a response. The developer quickly acknowledged the report and released a patch on January 13, 2022.

We strongly recommend ensuring that your site has been updated to the latest patched version of "WordPress Email Template Designer – WP HTML Mail", which is version 3.1 at the time of this publication.

Description: Unprotected REST-API Endpoint to Unauthenticated Stored Cross-Site Scripting and Data Modification

Affected Plugin: WordPress Email Template Designer - WP HTML Mail

Plugin Slug: wp-html-mail Plugin Developer: codemiq Affected Versions: <= 3.0.9 CVE ID: <u>CVE-2022-0218</u> CVSS Score: 8.3 (High)

 $\textbf{CVSS Vector:} \ \underline{CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:C/C:L/I:L/A:N}$

Researcher/s: Chloe Chamberland Fully Patched Version: 3.1

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Unfortunately, these were insecurely implemented making it possible for unauthenticated users to access these endpoints.

More specifically, the plugin registers the /themesettings endpoint, which calls the saveThemesettings function or getThemeSettings function depending on the request method. The REST-API endpoint did use the permission_callback function, however, it was set to __return_true which meant that no authentication was request to execute the functions. Therefore, any user had access to execute the REST-API endpoint to save the email's theme settings or retrieve the email's theme settings.

As this functionality was designed to implement setting changes for the email template, an unauthenticated user could easily make changes to the email template that could aid in phishing attempts against users that receive emails from the targeted site. Worse yet, unauthenticated attackers could inject malicious JavaScript into the mail template that would execute anytime a site administrator accessed the HTML mail editor.

As always, cross-site scripting vulnerabilities can be used to inject code that can add new administrative users, redire victims to malicious sites, inject backdoors into theme and plugin files, and so much more. Combined with the fact the vulnerability can be exploited by attackers with no privileges on a vulnerable site, this means that there is a high chance that unauthenticated attackers could gain administrative user access on sites running the vulnerable version the plugin when successfully exploited. As such, we strongly recommend that you verify that your site is running the most up to date version of the plugin immediately.

Timeline

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December 23, 2021 – Conclusion of the plugin analysis that led to the discovery of a Stored Cross-Site Scripting Vulnerability in the "WordPress Email Template Designer – WP HTML Mail" plugin. We develop and release a firewall to protect Wordfence users. Wordfence Premium users receive this rule immediately. We attempt to initiate contact v the developer.

January 4, 2022 – We send an additional outreach attempt to the developer.

January 10, 2022 – The developer confirms the inbox for handling the discussion. We send over the full disclosure details

January 11, 2022 – The developer acknowledges the report and indicates that they will work on a fix.

January 13, 2022 - A fully patched version of the plugin is released as version 3.1.

January 22, 2022 - The firewall rule becomes available to free Wordfence users.

Conclusion

In today's post, we detailed a flaw in the "WordPress Email Template Designer – WP HTML Mail" plugin that made it possible for unauthenticated attackers to inject malicious web scripts that would execute whenever a site owner accessed the mail editor area plugin, which could lead to complete site compromise. This flaw has been fully patcheversion 3.1.

We recommend that WordPress site owners immediately verify that their site has been updated to the latest patched version available, which is version 3.1 at the time of this publication.

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Wordfence Premium users received a firewall rule to protect against any exploits targeting this vulnerability on

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