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Critical Security Vulnerability Fixed In WP Reset PRO



Dave
from **patchstack**

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There was a critical security vulnerability in the WP Reset PRO plugin which allowed any authenticated user to wipe the database.

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The PRO version of the [WP Reset plugin](#) (versions 5.98 and below) suffers from a vulnerability that allows any authenticated user, regardless of their authorization, to wipe the entire database.

Because it wipes all tables in the database, it will restart the WordPress installation process which could allow an attacker to launch this installation process and then create an administrator account at the end of this process as by default an administrator account has to be created once the WordPress site has been installed.

After this, they could further exploit the site by uploading a malicious plugin or uploading a backdoor.



The plugin is described as a plugin that helps you to quickly reset the site's database to the default installation values without modifying any files. It deletes all customizations and content or just chosen parts like theme settings.

The described issue was fixed in version 5.99 after a rapid response (within 24 hours!) by the developer team of the plugin in question.

The security vulnerability in WP Reset PRO plugin

The issue in this plugin is caused due to a lack of authorization and nonce token check. The plugin registers a few actions in the `admin_action_*` scope. In the case of this vulnerability, it's `admin_action_wpr_delete_snapshot_tables`.

Unfortunately, the `admin_action_*` scope does not perform a check to determine if the user is authorized to perform said action, nor does it validate or check a nonce token to prevent CSRF attacks.

This action is registered as follows:

The function `delete_snapshot_tables` looks like the following:

```
function delete_snapshot_tables($uid = '')
{
    global $wpdb;

    if (empty($uid)) {
        $uid = $_GET['uid'];
    }

    if (strlen($uid) != 4 && strlen($uid) != 6) {
        return new WP_Error(1, 'Invalid UID format.');
```

It can be seen that the `uid` query parameter is grabbed from the URL, which is directly used as a prefix of the tables that should be deleted. Since the LIKE operator is used, we can pass a query parameter such as `%%wp` to delete all tables with the prefix `wp`.

Once this is done, someone could simply visit the homepage of the site to start the WordPress installation process.

The patch in WP Reset PRO

Since this is a premium plugin, the patch cannot be seen at the WordPress.org SVN repository.

Based on our own research and communication with the development team of the WP Reset PRO plugin, we can confirm that an authentication and authorization check has been added using the `current_user_can` function, along with a check to determine if a valid nonce token is present in the request using the `check_admin_referer` function.

In addition to this, the `uid` query parameter is also checked and made sure that it's a string only containing letters using the `ctype_alpha` function.

Timeline

27-09-2021 - We discovered the vulnerability in WP Reset PRO and released a [virtual patch](#) to all Patchstack paid version customers.

27-09-2021 - We reached out to the developer of the plugin.

28-09-2021 - The developer replied and we provided the vulnerability information.

28-09-2021 - The developer released a new plugin version, 5.99, which fixes this issue.

10-11-2021 - Published the article.

10-11-2021 - Added the [vulnerability to the Patchstack vulnerability database](#).

Websites with Patchstack paid version are protected from the issue and have received a virtual patch.

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