

New issue

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Connections 0.7.3.2 <= 9.6 CSV Injection #474

Closed rudSarkar opened this issue on May 29, 2020 · 9 comments

Assignees



Labels

enhancement

rudSarkar commented on May 29, 2020

Description

CSV Injection, also known as Formula Injection, occurs when websites embed untrusted input inside CSV files. Which lead to hijacking user's computer by exploiting with untrusted input. In this plugin, all the input fields of [connections_add](#) are affected.

Affected Item

Export All feature

Affected Version

0.7.3.2 <= 9.6

Tested With

Wordpress 5.4.1

Step to reproduce

1. Login to your website
2. Visit http://localhost/wordpress/wp-admin/admin.php?page=connections_add
3. In the input filed add payload @SUM(1+1)*cmd|' /C calc!A0
4. Visit [Connections Tools](#) and then click on Export All
5. It will download a file cn-export-all-MM-DD-YYYY.csv open it with Microsoft Excel
6. It will open CMD

Exported CSV File

Entry ID	Order	Entry Type	Visibility	Categories	Family Name	Honorific Prefix	First Name	Middle Name	Last Name	Honorific Suffix	
2	0	individual	public	Uncategorized		@sum(1+1)*cmd ' /C calc!A0	@sum(1+1)*cmd ' /C calc!A0	@sum(1+1)*cmd ' /C calc!A0	@sum(1+1)*cmd ' /C calc!A0	@sum(1+1)*cmd ' /C calc!A0	@ /C

All fields are not checked because `getData()` doesn't filter any of the fields.

[Connections/includes/export/class.csv-export-batch-all.php](#)
Lines 758 to 788 in c69ea8d

```
758     public function getData() {
759
760         /** @var wpdb $wpdb */
761         global $wpdb;
762
763         $offset = $this->limit * ( $this->step - 1 );
764
765         //if ( 2 <= $this->step ) return FALSE;
766
767         $sql = $wpdb->prepare(
768             'SELECT SQL_CALC_FOUND_ROWS *
769             FROM ' . CN_ENTRY_TABLE . '
```

Reference

[OWASP CSV Injection](#)

Hopefully, it will fix soon, Let me know if you have any questions.

Thanks,
@rudSarkar

shazahm1 commented on May 30, 2020

Member

Spent the morning delving into this and investing solution implemented by other:

- <https://plugins.trac.wordpress.org/changeset/1931064/ninja-forms/tags/3.3.14/includes/Fields/Textbox.php>
- <https://plugins.trac.wordpress.org/changeset/2239193/events-manager/trunk/classes/em-bookings-table.php>
- <https://plugins.trac.wordpress.org/changeset/1889593/woo-order-export-lite/trunk/classes/formats/abstract-class-woe-formatter-sv.php>
- <https://plugins.trac.wordpress.org/changeset/2227806/>

I liked the solution which did not try to hide the potential malicious activity, instead it informed the user.

Commit [ece2392](#) , not yet tested, should mitigate the issue. I'll work to test and push out the fix asap. Thanks for reporting!



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shazahm1 added a commit that referenced this issue on May 30, 2020

Introduce the `cn_csv_export_suspicious_value_prefix` filter. ...

25aa401

rudSarkar commented on May 30, 2020

Author

Hi @shazahm1 ,

Thanks for the response. Can you label it as bug ?

shazahm1 self-assigned this on May 30, 2020

shazahm1 added the **enhancement** label on May 30, 2020

shazahm1 commented on May 30, 2020

Member

I'll label it as an enhancement ... everything I've read digging into this today seems to indicate this is actually bug/security issue in spreadsheet apps that will not be fixed outside of some click thru warnings to the user.

shazahm1 commented on May 30, 2020

Member

Oh, really just semantics any way since I'll be pushing a fix that contains a workaround to prevent this bug in spreadsheet apps. You have to admin, the "solutions" are just workarounds :)

rudSarkar commented on May 30, 2020

Author

I know that it's the admin side. But it known as security issue https://auth0.com/docs/security/bulletins/2020-03-31_wpauth0 please check the link here they already marked it as Bug.

Thanks

shazahm1 commented on May 30, 2020

Member

I thank your for taking the time to leave a thorough report on how Connections could be utilized to exploit a security in spreadsheet apps!

Have you had a moment to test the patch? I'm confident it will as I implemented a similar workaround as in use by other popular open source project.

It would be great to have another verify before an update is released. If you do not have the time, I understand and again thank you for taking the time to let me know about this.

rudSarkar commented on May 30, 2020

Author

Sure, I will test the patch tomorrow.

rudSarkar commented on Jun 6, 2020

Author

This regex works good.

shazahm1 commented on Jun 24, 2020

Member

Sorry, I forgot to followup. This was merged and released. thx!



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shazahm1 closed this as completed on Jun 24, 2020

Assignees

shazahm1

Labels

enhancement

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

