

## #2968 Stored Cross-Site Scripting.

### URL / Location of vulnerability

/nukeviet/admin/index.php?language=en&nv=menu&op=rows&mid=1

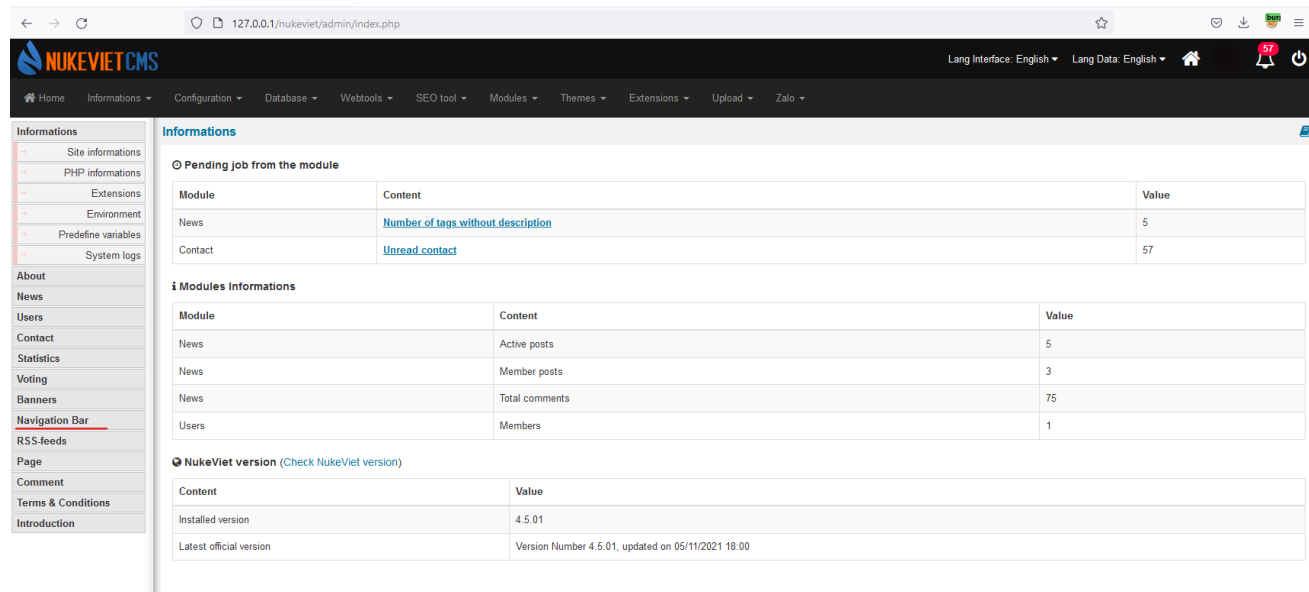
### Description

Hi Nukeviet Team.

I managed to exploit Stored XSS in Nukeviet CMS. Vulnerability is being exploited from the privileged user account. Vulnerability suffers from improper input encoding and sanitization of the Link Parameter.

### Steps to reproduce

1. Navigate to Admin Panel which is located at /nukeviet/admin/index.php
2. Next navigate to Navigation Bar option:



The screenshot shows the NukeViet CMS Admin Panel. The left sidebar contains a menu with options like Home, Informations, Configuration, Database, Webtools, SEO tool, Modules, Themes, Extensions, Upload, and Zalo. The main content area is titled 'Informations' and displays a table of pending jobs from the module. The table has columns for Module, Content, and Value. The rows show 'News' with 'Number of tags without description' (Value: 5) and 'Contact' with 'Unread contact' (Value: 57). Below this, there is a section for 'Modules Informations' with a table showing 'News' with 'Active posts' (Value: 5), 'Member posts' (Value: 3), and 'Total comments' (Value: 75), and 'Users' with 'Members' (Value: 1). At the bottom, there is a section for 'NukeViet version' with a table showing 'Installed version' (Value: 4.5.01) and 'Latest official version' (Value: Version Number 4.5.01, updated on 05/11/2021 18:00).

Module	Content	Value
News	Number of tags without description	5
Contact	Unread contact	57

Module	Content	Value
News	Active posts	5
News	Member posts	3
News	Total comments	75
Users	Members	1

Content	Value
Installed version	4.5.01
Latest official version	Version Number 4.5.01, updated on 05/11/2021 18:00

3. Navigate to "Top Menu" (location: /admin/index.php?language=en&nv=menu&op=rows&mid=1)
4. Add item with following values and click Save:  
Item Name: XSSTEST  
Link: "> <scr<script>ipt>alert(document.domain)</scr<script>ipt>

<input type="checkbox"/>	Order	ID	Item name	Link	Group viewed	Display	Activities
<input type="checkbox"/>	1	1	About	/nukeviet/index.php?language=en&nv=about	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	2	2	News	/nukeviet/index.php?language=en&nv=news	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	3	3	Users (6 Only suitable for some specific style, some style will display title instead of the menu name.)	/nukeviet/index.php?language=en&nv=users	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	4	4	Voting	/nukeviet/index.php?language=en&nv=voting	All	<input checked="" type="checkbox"/>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	5	5	Contact	/nukeviet/index.php?language=en&nv=contact	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>

Delete 

## Add Item

Menu block	Top Menu	
Belong to Item	Main item	
Link to Module	Select module	
Item name <sup>(*)</sup>	XSSTEST	
Link	<u>&lt;script&gt;alert(document.domain)&lt;/script&gt;</u>	
Icon	<input type="text"/>	<input type="button" value="Browse"/>
Image	<input type="text"/>	<input type="button" value="Browse"/>
Notes	<input type="text"/>	
Group viewed	<input type="checkbox"/> Super administrator <input type="checkbox"/> General administrator <input type="checkbox"/> Module administrator <input type="checkbox"/> Member <input type="checkbox"/> New member <input type="checkbox"/> Guest <input checked="" type="checkbox"/> All <input type="checkbox"/> NukeViet-Fans <input type="checkbox"/> NukeViet-Admins <input type="checkbox"/> NukeViet-Programmers	
Open link	Current Page	
Active menu	Correctly with the menu link	To define a menu that is activated or deactivated by comparing the menu link pointing to link existing sites by side criteria.
CSS class name.	<input type="text"/>	Class name (CSS) to define the menu interface.
<input type="button" value="Save"/>		

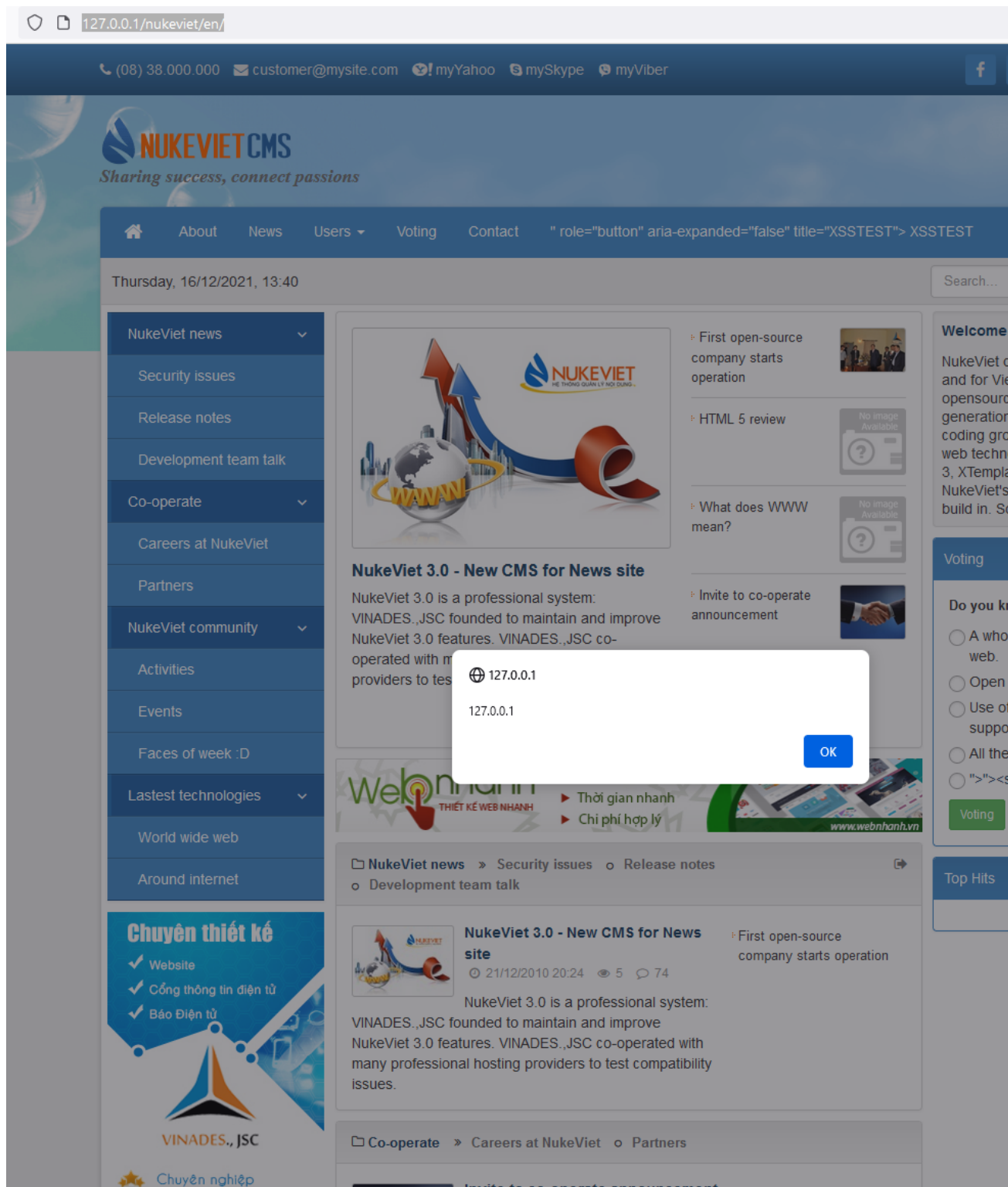
5. Item should be saved as follows:

## Menu management / Top Menu

<input type="checkbox"/>	Order	ID	Item name	Link	Group viewed	Display	Activities
<input type="checkbox"/>	1	1	About	/nukeviet/index.php?language=en&nv=about	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	2	2	News	/nukeviet/index.php?language=en&nv=news	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	3	3	Users (6 Only suitable for some specific style, some style will display title instead of the menu name.)	/nukeviet/index.php?language=en&nv=users	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	4	4	Voting	/nukeviet/index.php?language=en&nv=voting	All	<input checked="" type="checkbox"/>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	5	5	Contact	/nukeviet/index.php?language=en&nv=contact	All	<input checked="" type="checkbox"/>	<a href="#">Menu reload</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	6	15	XSSTEST	"> <script>alert(document.domain)</script>	All	<input checked="" type="checkbox"/>	<a href="#">Edit</a> <a href="#">Delete</a>

Delete 

6. Next visit the website as a regular non-privileged user or an admin user. XSS Alert should appear.



There are many affected input fields of the same issue in your CMS for example :

1. "Voting Option" (/nukeviet/admin/index.php?language=en&nv=voting) -> "Link to Page" \* Modify second option from the list as it is not checking whether input is a URL or not:

**Edit voting**

Start Time	16/12/2021	13	:	51
End time		00	:	00
Voting content	XSSTEST			
Link to Page				

Maximum number of options per vote: 1

Group viewed:

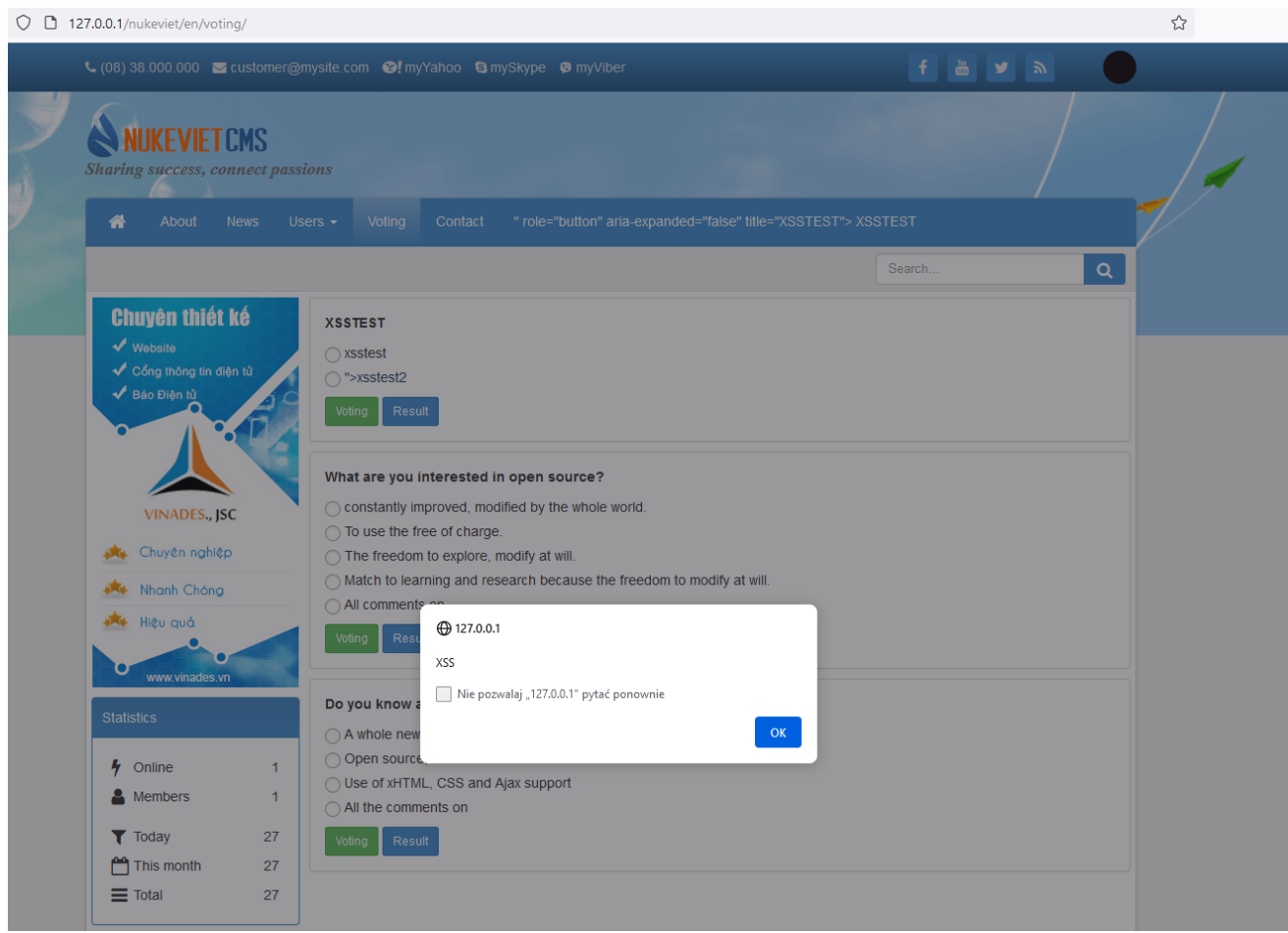
- ☐ Super administrator
- ☐ General administrator
- ☐ Module administrator
- ☐ Member
- ☐ New member
- ☐ Guest
- ☒ All
- ☐ NukeViet-Fans
- ☐ NukeViet-Admins
- ☐ NukeViet-Programmers

☒ Activation confirmation code

☐ Vote 1 time (One-time voting is only available when "Groups viewed" is selected for the member)

	The response options	Link to Page
Number 1	xsstest	
Number 2	xsstest2	"><script>ipt>alert('XSS')</script>ipt>

Visit voting page(/nukeviet/en/voting/) as a regular or admin user - XSS alert should appear:



## Impact

It is reasonable to fix the issue as the vulnerability would allow privileged user who exploit the vulnerability to steal other user's or admin's session cookies which lead to account takeover and manipulating the voting results.

## Recommendation

Encode and sanitize all parameters input fields.

### OWASP Cross Site Scripting Prevention Cheat Sheet:

[https://cheatsheetseries.owasp.org/cheatsheets/Cross\\_Site\\_Scripting\\_Prevention\\_Cheat\\_Sheet.html](https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html)

## Attachments

🔗 [POC-29681](#)

🔗 [POC-29682](#)

🔗 [POC-29683](#)

🔗 [POC-29684](#)

🔗 [POC-29685](#)

🔗 [POC-29686](#)

🔗 [POC-29687](#)



**Dawid Bakaj** created a report

[a year ago](#)



**NukeViet** changed the status to **Unresolved**

[a year ago](#)



**NukeViet** changed the severity to **HIGH**

[a year ago](#)



**NukeViet** added a comment

[a year ago](#)

Thank you very much, we have noted and will resolve it as soon as possible



**NukeViet** changed the severity to **MEDIUM**

[a year ago](#)



**Dawid Bakaj** added a comment

[a year ago](#)

Hello,

Is the vulnerability fully fixed ?



**NukeViet** added a comment

[a year ago](#)

We fixed it at this commit <https://github.com/nukeviet/nukeviet/commit/5eb43adda8434d7671899d5c634d3b75b5179a74>, please check again.  
The official updates will be in the upcoming release.  
Thanks Dawid Bakaj



**Dawid Bakaj** added a comment

[a year ago](#)

Hello NukeViet Team,

I found a bypass for a fix.

try this payload:

```
"> <iframe src=javascript:alert(document.domain) <
```

In order to fix the vulnerability properly i suggest not using the Regex. You can implement allow list of tags and attributes or just use DOMPurify library instead: <https://github.com/cure53/DOMPurify> (Remember to update the dependencies regularly.

Kind regards,

Dawid Bakaj



**NukeViet** added a comment

[a year ago](#)

Thank you very much, we will check again

**Dawid Bakaj** added a comment

10 months ago

Hi, any updates about the issue?

**Dawid Bakaj** added a comment

10 months ago

Hi, any updates?

**NukeViet** added a comment

9 months ago

We have solved this problem, the latest code is here <https://github.com/nukeviet/nukeviet/tree/nukeviet4.6> please check again

**Dawid Bakaj** added a comment

9 months ago

Hi Nukeviet team.

Vulnerability has not been fixed. Try following payload:

```
javascript:alert(document.domain)
```

Afterwards go to the home page and click on the modified tab, JavaScript will execute and alert box should appear.

**NukeViet** added a comment

8 months ago

Dear Dawid Bakaj

We fixed it here <https://github.com/nukeviet/nukeviet/commit/c8f895aa40d2c4f9b8fe64126b0c5ee240fd5633>

Please check again.

Thank you

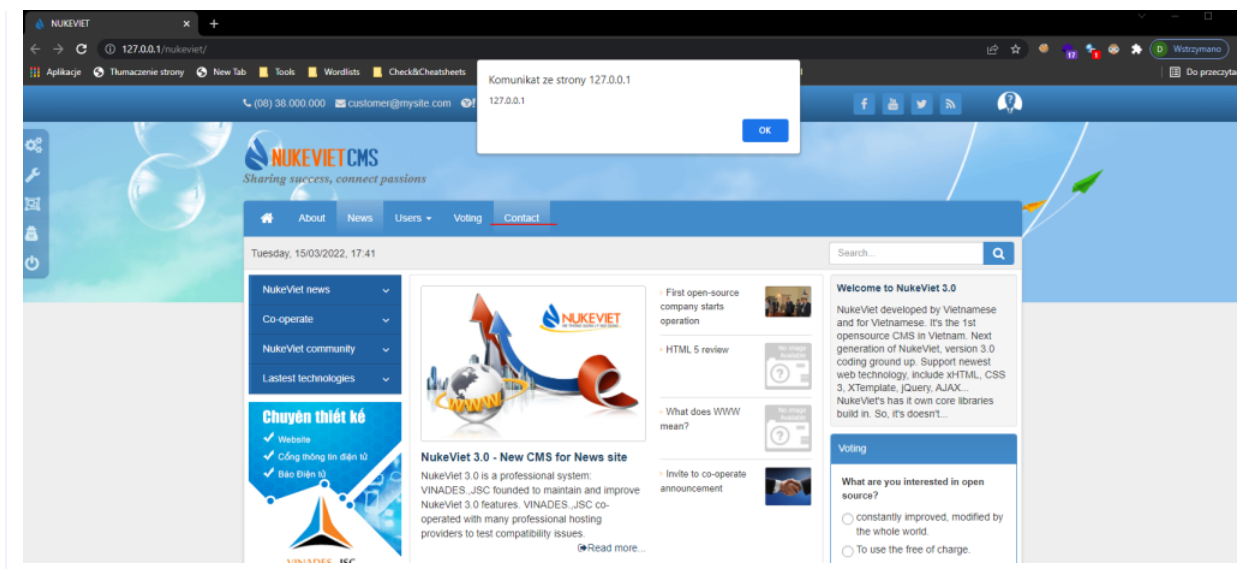
**Dawid Bakaj** added a comment

8 months ago

The vulnerability still exists. To reproduce inject the same payload:

```
javascript:alert(document.domain)
```





[POC-29688](#)  
[POC-29689](#)  
[POC-296810](#)

**Dawid Bakaj** added a comment  
8 months ago

Payload succesfully injected into the href attribute\* ^

**Dawid Bakaj** added a comment  
8 months ago

UPDATE: Vulnerability has been fixed properly. I used wrong commit. Please ignore last comment.

**Dawid Bakaj** requested to disclose this report  
8 months ago

May I ask for full disclosure and the CVE for this finding ?

**NukeViet** added a comment  
8 months ago

Yes Dawid Bakaj, you can. We will announce when new version is released.

**Dawid Bakaj** added a comment  
8 months ago

Hi Nukeviet.

I found a bypass for the latest fix. To reproduce the vulnerability use this payload:

```
javascript:/%0aalert%28alert%29
```

**NukeViet** added a comment  
8 months ago

Thank you very much.

We continue to fix that bug here <https://github.com/nukeviet/nukeviet/commit/88fca9eab7def176fdf63a5ada1c137827218705>.

Would you mind checking again

**Dawid Bakaj** added a comment  
8 months ago



Vulnerability has been fixed properly.

**Dawid Bakaj** added a comment

7 months ago

Hello Nukeviet team. May i request a CVE for the vulnerability?

**NukeViet** added a comment

7 months ago

Hi,

We have no experience with CVE.

Can you tell us what to do to help you? Or you can get your own CVE and we publish it for you?

**Dawid Bakaj** added a comment

7 months ago

Hi,

I requested for CVE by myself. May I ask for a full disclosure of the vulnerability?

Kind regards,

Dawid

**NukeViet** added a comment

7 months ago

Hi,

This error only occurs for accounts with website administrator rights.

There would be no serious effect if it was announced.

We will include the CVE in the changelog when the new version is released

**Dawid Bakaj** added a comment

5 months ago

Hi Nukeviet Team

Please use this CVE as a reference to this vulnerability :

CVE-2022-30874.

Let mne know when included to the changelog.

**NukeViet** added a comment

5 months ago

Thank you,

We have released two versions of these security patches, NukeViet 4.4.05 and 4.5.02: <https://github.com/nukeviet/nukeviet/releases>

We have attached the CVE in the changelog here:

<https://github.com/nukeviet/nukeviet/blob/nukeviet4.4/CHANGELOG.txt>

<https://github.com/nukeviet/nukeviet/blob/nukeviet4.5/CHANGELOG.txt>

**NukeViet** changed the status to **Resolved**

5 months ago

**NukeViet** changed the severity to **HIGH**

5 months ago

**Dawid Bakaj** added a comment

5 months ago

May i ask to change a nickname "abstrabakus" to my name and surname in the changelog?

Kind regards

Dawid Bakaj

**Dawid Bakaj** requested to disclose this report

[5 months ago](#)

**NukeViet** added a comment

[5 months ago](#)

We have updated.

<https://github.com/nukeviet/nukeviet/blob/nukeviet4.4/CHANGELOG.txt>

<https://github.com/nukeviet/nukeviet/blob/nukeviet4.5/CHANGELOG.txt>

**Dawid Bakaj** added a comment

[5 months ago](#)

Hi Nukeviet Team,

Thank you for updating the changelog. One more question, May I public the PoC now, or should I wait a month from now?

**NukeViet** added a comment

[5 months ago](#)

Hi Dawid Bakaj,

This error is mainly in site administration, less likely to have a major impact on all websites using NukeViet.

So you can publish it now. We have also moved this report from private to public.

Thank you

#### Program

NukeViet

#### Target

<https://github.com/nukeviet/>

#### Visibility

Public - Full

#### Status

Accepted - Resolved

#### Vulnerability

Cross-Site Scripting (XSS) > Stored > Privileged User to Privilege Elevation

#### Severity

HIGH

#### Reference

#2968

#### Submitted at

12/16/2021 08:12:58

#### Submitted by

Dawid Bakaj

#### Point

3

#### Votes

1

#### Public link

<https://whitehub.net/submissions/2968>



