huntr

XSS via Mathematical Typesetting in jgraph/drawio



Requirements

Feature: Extras > Mathematical Typesetting enabled.

User interaction: Access vulnerable page || diagram and wheel click on a link.



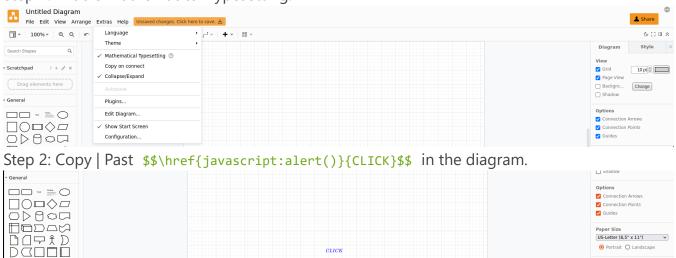
Description

The Mathematical Typesetting feature allows to use inline content such as AsciiMath or LaTeX. Using it allows you to create a tag via \href macro. By default, it allows you to use dangerous wrappers like javascript: which permits on click XSS. (wheel click in draw.io context)



Proof of Concept

Step 1: Enable Mathematical Typesetting.



Step 3: Wheel click on the link.

= S P P



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Edit Data..

Check Requierements section if it's not working.



Use ui/safe extension which prevents several security risks such as <code>javascript</code> wrapper in the <code>href</code> attribute.

Impact

An attacker might use it, for example, to extract information from the user's diagram.

CVE

CVE-2022-3223 (Published)

Vulnerability Type

CWE-79: Cross-site Scripting (XSS) - Stored

Severity

Medium (4.3)

Registry

Npm

Affected Version

20.2.8

Visibility

Dublic

Status

Fixed

Found by



Mizu @kevin-mizu pro v

This report was seen 3,030 times.

Chat with us

David Benson 2 months ago

Maintainer

What domain are you testing this on? What is the CSP in the response headers for that domain?

Mizu 2 months ago

Researcher

I tested it on app.diagrams.net and viewer.diagrams.net. But, I got really weird issues testing it, it must be due to CSP, you are right

Mizu 2 months ago

Researcher

Do you want me to take time trying to exploit it with CSP bypass or this is enough for you?

Mizu 2 months ago

Researcher

As an example: PoC

Mizu modified the report 2 months ago

Mizu modified the report 2 months ago

David Benson 2 months ago

Maintainer

Nothing happens on this PoC for me. What is the CSP in the reponse header for you?

We have contacted a member of the **jgraph/drawio** team and are waiting to hear back 2 months ago

Mizu 2 months ago

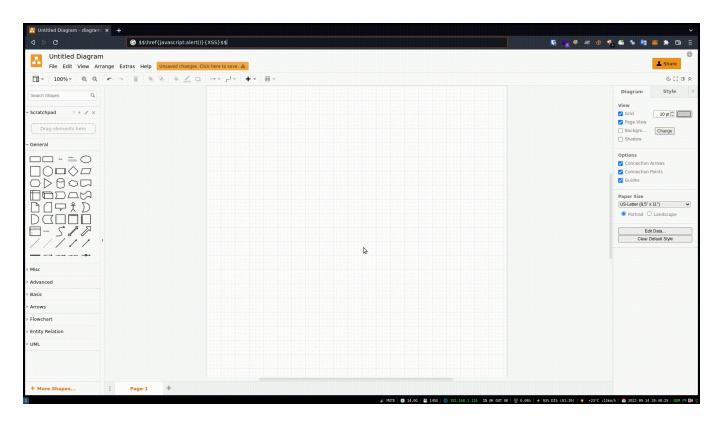
Researcher

CSP on viewer.diagrams.net:

connect-src *; img-src * data: blob:; media-src * data:; font-src * ?'

Chat with us

Video:



PS: it must be a wheel click or it won't works.

Diagram: Link

The PoC doesn't work on app.diagrams.net, I probably did something weird while testing...

David Benson validated this vulnerability 2 months ago

Mizu has been awarded the disclosure bounty 🗸

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

David Benson marked this as fixed in 20.3.1 with commit ea012b 2 months ago

The fix bounty has been dropped 🗶

This vulnerability will not receive a CVE 🗶

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