CVE-2022-36010

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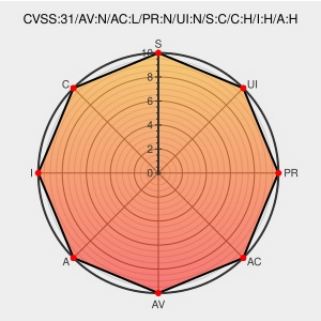
CVE-2022-36010 - advisory for GHSA-j3rv-w43q-f9x2

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of React Editable Json Tree from React Editable Json Tree Project contain the following vulnerability:

This library allows strings to be parsed as functions and stored as a specialized component, [`JsonFunctionValue`](https://github.com/oxyno-zeta/react-editable-json-tree/blob/09a0ca97835b0834ad054563e2fddc6f22bc5d8c/src/components/JsonFunctionValue. To do this, Javascript's [`eval`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/eval) function is used to execute strings that begin with "function" as Javascript. This unfortunately could allow arbitrary code to be executed if it exists as a value within the JSON structure being displayed. Given that this component may often be used to display data from arbitrary, untrusted sources, this is extremely dangerous. One important note is that users who have defined a custom [`onSubmitValueParser`](https://github.com/oxyno-zeta/react-editable-json-tree/tree/09a0ca97835b0834ad054563e2fddc6f22bc5d8c#onsubmitvalueparser) callback prop on the [`JsonTree`](https://github.com/oxyno-zeta/react-editable-json-tree/blob/09a0ca97835b0834ad054563e2fddc6f22bc5d8c/src/JsonTree.js) component should be ***unaffected***. This vulnerability exists in the default `onSubmitValueParser` prop which calls [`parse`](https://github.com/oxyno-zeta/react-editable-json-tree/blob/master/src/utils/parse.js#L30). Prop is added to `JsonTree` called `allowFunctionEvaluation`. This prop will be set to `true` in v2.2.2, which allows upgrade without losing backwards-compatibility. In v2.2.2, we switched from using `eval` to using [`Function`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) to construct anonymous functions. This is better than `eval` for the following reasons: - Arbitrary code should not be able to execute immediately, since the `Function` constructor explicitly *only creates* anonymous functions - Functions are created without local closures, so they only have access to the global scope If you use: - **Version `<2.2.2`**, you must upgrade as soon as possible. - **Version `^2.2.2`**, you must explicitly set `JsonTree`'s `allowFunctionEvaluation` prop to `false` to fully mitigate this vulnerability. - **Version `>=3.0.0`**, `allowFunctionEvaluation` is

already set to `false` by default, so no further steps are necessary.

CVE-2022-36010 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **oxyno-zeta** - **react-editable-json-tree** version **< 2.2.2**

CVSS3 Score: 9.8 - CRITICAL

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	HIGH	HIGH	HIGH

CVE References

Description	Tags	Link
Release 2.2.2 · oxyno-zeta/react-editable-json-tree · GitHub	github.com text/html	MISC github.com/oxyno-zeta/react-editable-json-tree/releases/tag/2.2.2
Arbitrary code execution via function parsing · Advisory · oxyno-zeta/react-editable-json-tree · GitHub	github.com text/html	CONFIRM github.com/oxyno-zeta/react-editable-json-tree/security/advisories/GHSA-j3rv-w43q-f9x2

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	React Editable Json Tree Project	React Editable Json Tree	All	All	All	All

cpe:2.3:a:react_editable_json_tree_project:react_editable_json_tree:*:*:*:*:*:node.js:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-36010 : This library allows strings to be parsed as functions and stored as a specialized component, [`Jso… twitter.com/i/web/status/1…	2022-08-15 18:38:33
@Robo_Alerts	Potentially Critical CVE Detected! CVE-2022-36010 This library allows strings to be parsed as functions and stored… twitter.com/i/web/status/1…	2022-08-15 20:56:00

@LinInfoSec	React - CVE-2022-36010: github.com/oxyno-zeta/rea…	2022-08-15 21:00:16
/r/netcve	CVE-2022-36010	2022-08-15 19:38:18

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