CVE-2020-7787

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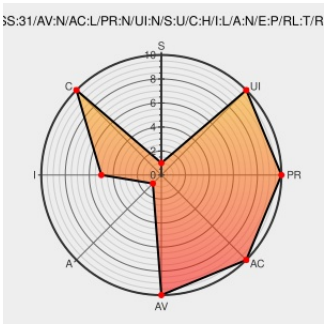

Certain versions of React-adal from React-adal Project contain the following vulnerability:

This affects all versions of package react-adal. It is possible for a specially crafted JWT token and request URL can cause the nonce, session and refresh values to be incorrectly validated, causing the application to treat an attacker-generated JWT token as authentic. The logical defect is caused by how the nonce, session and refresh values are stored in the browser local storage or session storage. Each key is automatically appended by ||. When the received nonce and session keys are generated, the list of values is stored in the browser storage, separated by ||, with || always appended to the end of the list. Since || will always be the last 2 characters of the stored values, an empty string ("") will always be in the list of the valid values. Therefore, if an empty session parameter is provided in the callback URL, and a specially-crafted JWT token contains an nonce value of "" (empty string), then adal.js will consider the JWT token as authentic.

CVE-2020-7787 has been assigned by report@snyk.io to track the vulnerability - currently rated as HIGH severity.

CVSS3 Score: 8.2 - HIGH

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

CVSS2 Score: 5 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**

NONE	PARTIAL	NONE

CVE References

Description	Tags	Link
ADAL.js update by krishardy · Pull Request #115 · salvoravida/react-adal · GitHub	Exploit Third Party Advisory github.com text/html	MISC github.com/salvoravida/react-adal/pull/115
Improper Authentication in react-adal | Snyk	Exploit Third Party Advisory snyk.io text/html	MISC snyk.io/vuln/SNYK-JS-REACTADAL-1018907

Related QID Numbers

982777 Nodejs (npm) Security Update for react-adal (GHSA-7mpx-vg3c-cmr4)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	React-adal Project	React-adal	All	All	All	All
Application	React-adal Project	React-adal	All	All	All	All

cpe:2.3:a:react-adal_project:react-adal:*:*:*:*:*:node.js:*:*:

cpe:2.3:a:react-adal_project:react-adal:*:*:*:*:*:node.js:*:*:

Discovery Credit

Kris Hardy

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