CVE-2021-41110

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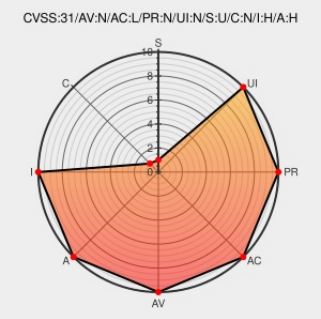
CVE-2021-41110 - advisory for GHSA-7g7j-f5g3-fqp7

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



Certain versions of Cwlviewer from Commonwl contain the following vulnerability:

cwlviewer is a web application to view and share Common Workflow Language workflows. Versions prior to 1.3.1 contain a Deserialization of Untrusted Data vulnerability. Commit number f6066f09edb70033a2ce80200e9fa9e70a5c29de (dated 2021-09-30) contains a patch. There are no available workarounds aside from installing the patch. The SnakeYaml constructor, by default, allows any data to be parsed. To fix the issue the object needs to be created with a `SafeConstructor` object, as seen in the patch.

CVE-2021-41110 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **common-workflow-language** - **cwlviewer** version **< 1.3.1**

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

CVSS2 Score: 7.5 - HIGH

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

CVE References

Description	Tags	Link
CWL Viewer: deserialization of untrusted data can lead to complete takeover by an attacker · Advisory · common-workflow-language/cwlviewer · GitHub	github.com text/html	CONFIRM github.com/common-workflow-language/cwlviewer/security/advisories/GHSA-7g7j-f5g3-fqp7
Analysis of the SnakeYaml deserialization in Java Security	www.fatalerrors.org text/html	MISC www.fatalerrors.org/a/analysis-of-the-snakeyaml-deserialization-in-java-security.html
Use Yaml SafeConstructor (#355) · common-workflow-language/cwlviewer@f6066f0 · GitHub	github.com text/html	MISC github.com/common-workflow-language/cwlviewer/commit/f6066f09edb70033a2ce80200e9fa9e70a5c29de

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Commonwl	Cwlviewer	All	All	All	All

cpe:2.3:a:commonwl:cwlviewer:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@kinow	CVE-2021-41110 "CWL Viewer: deserialization of untrusted data can lead to complete takeover by an attacker"… twitter.com/i/web/status/1…	2021-09-30 22:25:54
@CVEreport	CVE-2021-41110 : cwlviewer is a web application to view and share Common Workflow Language workflows. Versions prio… twitter.com/i/web/status/1…	2021-10-01 12:26:18
@threatmeter	CVE-2021-41110 cwlviewer is a web application to view and share Common Workflow Language workflows. Versions prior… twitter.com/i/web/status/1…	2021-10-02 07:09:43

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