



CVE-2022-31116

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CVE-2022-31116 - advisory for GHSA-wpqr-jcpx-745r

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H



Certain versions of [Fedora](#) from [Fedoraproject](#) contain the following vulnerability:

UltraJSON is a fast JSON encoder and decoder written in pure C with bindings for Python 3.7+. Affected versions were found to improperly decode certain characters. JSON strings that contain escaped surrogate characters not part of a proper surrogate pair were decoded incorrectly. Besides corrupting strings, this allowed for potential key confusion and value overwriting in dictionaries. All users parsing JSON from untrusted sources are vulnerable. From version 5.4.0, UltraJSON decodes lone surrogates in the same way as the standard library's `json` module does, preserving them in the parsed output. Users are advised to upgrade. There are no known workarounds for this issue.

CVE-2022-31116 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **ultrajson** - **ultrajson** version < 5.4.0





CVSS3 Score: **7.5 - HIGH**

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

CVSS2 Score: **5 - MEDIUM**

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

CVE References

Description	Tags	Link
[SECURITY] Fedora 36 Update: python-ujson-5.4.0-1.fc36 - package-announce - Fedora Mailing-Lists	lists.fedoraproject.org text/html	 FEDORA FEDORA-2022-1b2b8d5177
[SECURITY] Fedora 35 Update: python-ujson-5.4.0-1.fc35 - package-announce - Fedora Mailing-Lists	lists.fedoraproject.org text/html	 FEDORA FEDORA-2022-33e816bc37
Incorrect handling of invalid surrogate pair characters · Advisory · ultrajson/ultrajson · GitHub	github.com text/html	 CONFIRM github.com/ultrajson/ultrajson/security/advisories/GHSA-wpqr-jcpx-745r
Merge pull request #555 from JustAnotherArchivist/fix-decode-surrogat... · ultrajson/ultrajson@67ec071 · GitHub	github.com text/html	 MISC github.com/ultrajson/ultrajson/commit/67ec07183342589d602e0fcf7bb1ff3e19272687

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Related QID Numbers

- [183444](#) Debian Security Update for ujson (CVE-2022-31116)
- [240971](#) Red Hat Update for OpenStack Platform 16.2.4 (RHSA-2022:8850)
- [240977](#) Red Hat Update for OpenStack Platform 16.1.9 (RHSA-2022:8864)
- [282967](#) Fedora Security Update for python (FEDORA-2022-1b2b8d5177)
- [283003](#) Fedora Security Update for python (FEDORA-2022-33e816bc37)
- [502411](#) Alpine Linux Security Update for py3-ujson
- [753304](#) SUSE Enterprise Linux Security Update for python-ujson (SUSE-SU-2022:2673-1)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Fedoraproject	Fedora	35	All	All	All
Operating System	Fedoraproject	Fedora	36	All	All	All
Application	Ultrajson Project	Ultrajson	All	All	All	All
cpe:2.3:o:fedoraproject:fedora:35:*:*:*:*:*:						
cpe:2.3:o:fedoraproject:fedora:36:*:*:*:*:*:						

cpe:2.3:a:ultrajson_project:ultrajson:*:*:*:*:python:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2022-31116 : UltraJSON is a fast JSON encoder and decoder written in pure C with bindings for Python 3.7+. Affe... twitter.com/i/web/status/1...	2022-07-05 17:38:34
 @LinInfoSec	Python - CVE-2022-31116: github.com/ultrajson/ultr...	2022-07-05 21:01:04
 /r/netcve	CVE-2022-31116	2022-07-05 18:38:11

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