



CVE-2025-14831

VEX [↗](#)

Public on February 9, 2026

Last modified: March 12, 2026 at 5:14:52 PM UTC



Moderate severity

[What does this mean?](#)**5.3**

CVSS v3 Score Breakdown

[Jump to section](#)

Description	Statement	Additional information	Affected Packages	CVSS Score Details	Weakness (CWE)	FAQ
-------------	-----------	------------------------	-------------------	--------------------	----------------	-----

Description

A flaw was found in GnuTLS. This vulnerability allows a denial of service (DoS) by excessive CPU (Central Processing Unit) and memory consumption via specially crafted malicious certificates containing a large number of name constraints and subject alternative names (SANs).

Statement

This vulnerability is rated Moderate for Red Hat. GnuTLS is susceptible to a denial of service attack due to excessive CPU and memory consumption. This occurs when processing specially crafted malicious certificates containing a large number of name constraints an

d subject alternative names (SANs) during certificate verification.

Additional information

- Bugzilla 2423177: gnutls: GnuTLS: Denial of Service via excessive resource consumption during certificate verification
- CWE-407: Inefficient Algorithmic Complexity

External references

- <https://www.cve.org/CVERecord?id=CVE-2025-14831>
- <https://nvd.nist.gov/vuln/detail/CVE-2025-14831>
- <https://gitlab.com/gnutls/gnutls/-/issues/1773>

Affected Packages and Issued Red Hat Security Errata

- i** Unless explicitly stated as not affected, all previous versions of packages in any minor update stream of a product listed here should be assumed vulnerable, although may not have been subject to full analysis.

Search:

Filter by:

Products / Services ▼

Components ▼

State ▼

Errata ▼

[Clear all](#)

Products / Services	Red Hat Enterprise Linux 10
Components	gnutls
State	Fixed
Justification	None
Errata	RHSA-2026:3477
Release Date	March 2, 2026

Products / Services	Red Hat Enterprise Linux 10.0 Extended Update Support
Components	gnutls
State	Fixed
Justification	None
Errata	RHSA-2026:6618
Release Date	April 6, 2026

Products / Services	Red Hat Enterprise Linux 8
Components	gnutls
State	Fixed
Justification	None
Errata	RHSA-2026:5585

« < 1 of 3 > »

Common Vulnerability Scoring System (CVSS) Score Details

i Important note

CVSS scores for open source components depend on vendor-specific factors (e.g. version or build chain). Therefore, Red Hat's score and impact rating can be different from NVD and other vendors. Red Hat remains the authoritative CVE Naming Authority (CNA) source for its products and services (see Red Hat classifications).

CVSS v3 Score Breakdown

	Red Hat	NVD	CVE List
CVSS v3 Base Score	5.3	N/A	N/A
Attack Vector	Network	N/A	N/A
Attack Complexity	Low	N/A	N/A
Privileges Required	None	N/A	N/A
User Interaction	None	N/A	N/A
Scope	Unchanged	N/A	N/A
Confidentiality Impact	None	N/A	N/A
Integrity Impact	None	N/A	N/A
Availability Impact	Low	N/A	N/A

CVSS v3 Vector

Red Hat: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:L

Frequently Asked Questions

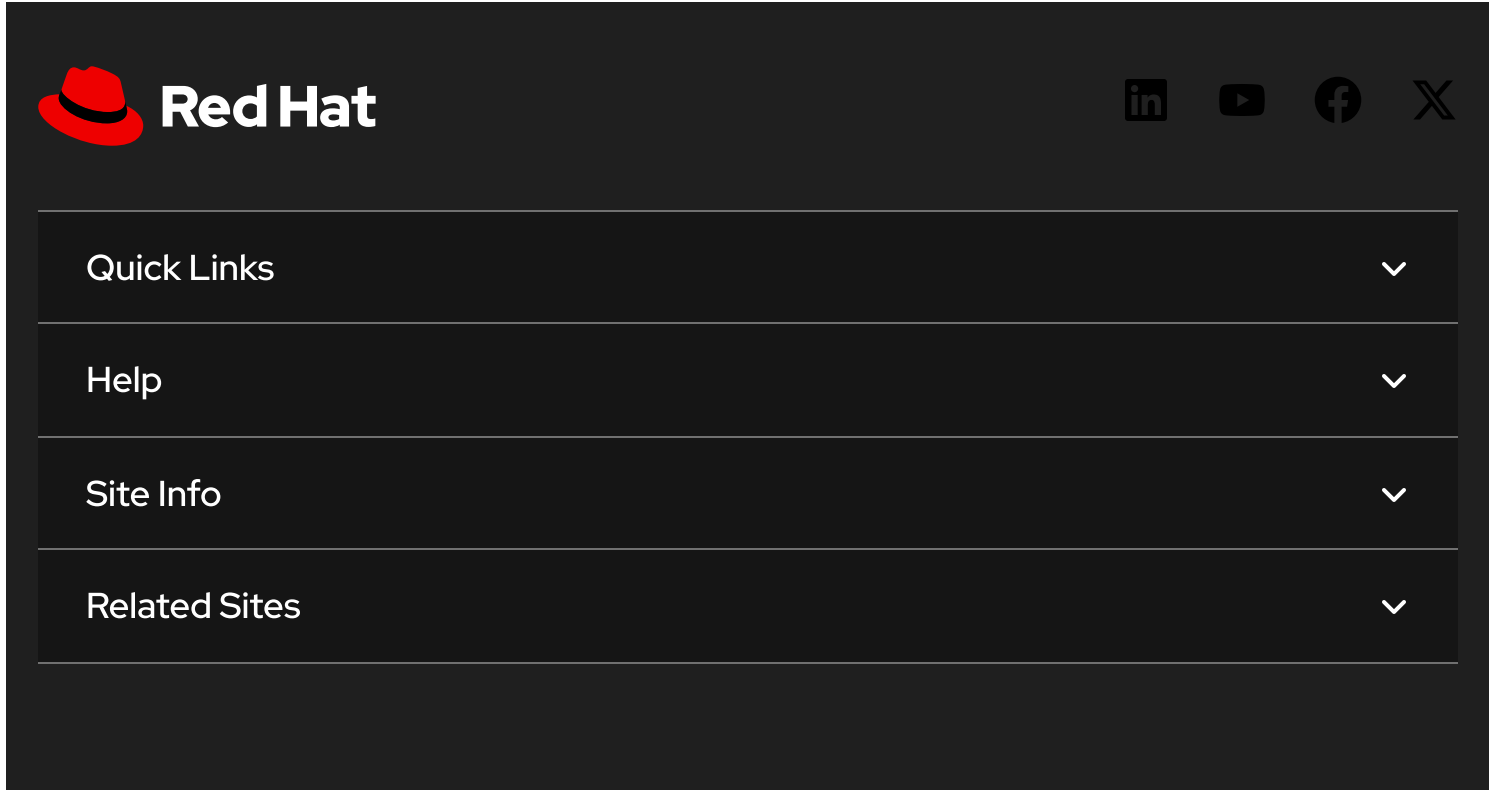
Why is Red Hat's CVSS v3 score or Impact different from other vendors?	▼
My product is listed as "Under investigation" or "Affected", when will Red Hat release a fix for this vulnerability?	▼
What can I do if my product is listed as "Will not fix"?	▼
What can I do if my product is listed as "Fix deferred"?	▼
What is a mitigation?	▼
I have a Red Hat product but it is not in the above list, is it affected?	▼
Why is my security scanner reporting my product as vulnerable to this vulnerability even though my product version is fixed or not affected?	▼

Not sure what something means? Check out our Security Glossary.

Want to get errata notifications? Sign up here.

For clarification or corrections, please contact [Red Hat Product Security](#).

Last modified: March 12, 2026 at 5:14:52 PM UTC
CVE description copyright © 2021



The image shows a dark-themed navigation bar for the Red Hat website. On the left is the Red Hat logo, consisting of a red fedora hat icon and the text "Red Hat" in white. On the right are four social media icons: LinkedIn, YouTube, Facebook, and X. Below the logo and icons is a vertical list of four menu items: "Quick Links", "Help", "Site Info", and "Related Sites". Each item has a white downward-pointing chevron icon to its right, indicating a dropdown menu.

✓ All systems operational



The image shows a dark-themed navigation menu. At the top left is a small, light-colored fedora hat icon. Below the icon is a vertical list of ten menu items: "About Red Hat", "Jobs", "Events", "Locations", "Contact Red Hat", "Red Hat Blog", "Inclusion at Red Hat", "Cool Stuff Store", and "Red Hat Summit".

© 2026 Red Hat

[Privacy statement](#)

[Terms of use](#)

[All policies and guidelines](#)

[Digital accessibility](#)

[Cookie preferences](#)