



# CVE-2025-5914

VEX [↗](#)

Public on May 20, 2025

Last modified: February 5, 2026 at 5:26:01 PM UTC



**IMPORTANT**

## Important severity

What does this mean?

**7.8**

CVSS v3 Score Breakdown

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

A vulnerability has been identified in the libarchive library, specifically within the `archive_read_format_rar_seek_data()` function. This flaw involves an integer overflow that can ultimately lead to a double-free condition. Exploiting a double-free vulnerability can result in memory corruption, enabling an attacker to execute arbitrary code or cause a denial-of-service condition.

## Statement

The Red Hat Product Security team has rated this vulnerability as Important because it allows a local attacker with limited privileges to trigger a double-free in libarchive's RAR parser by providing a specially crafted RAR archive. Successful exploitation could result in code execution or application crashes.

## Additional information

- Bugzilla 2370861: libarchive: Double free at archive\_read\_format\_rar\_seek\_data() in archive\_read\_support\_format\_rar.c
- CWE-190: Integer Overflow or Wraparound

### External references

- <https://www.cve.org/CVERecord?id=CVE-2025-5914>
- <https://nvd.nist.gov/vuln/detail/CVE-2025-5914>
- <https://github.com/libarchive/libarchive/pull/2598>
- <https://github.com/libarchive/libarchive/releases/tag/v3.8.0>

## Affected Packages and Issued Red Hat Security Errata

Search:

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### Products / Services

Red Hat Enterprise Linux 10

### Components

libarchive

<b>State</b>	Fixed
<b>Justification</b>	None
<b>Errata</b>	<a href="#">RHSA-2025:14137</a>
<b>Release Date</b>	August 20, 2025

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<b>Products / Services</b>	Red Hat Enterprise Linux 7 Extended Lifecycle Support
<b>Components</b>	libarchive
<b>State</b>	Fixed
<b>Justification</b>	None
<b>Errata</b>	<a href="#">RHSA-2025:14828</a>
<b>Release Date</b>	August 28, 2025

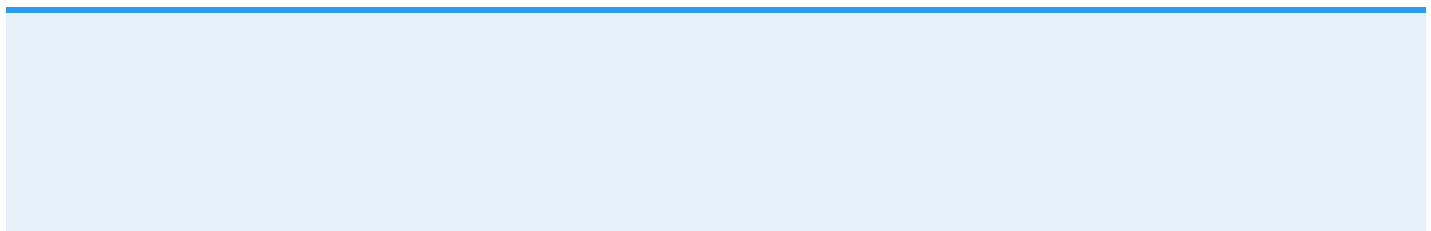
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<b>Products / Services</b>	Red Hat Enterprise Linux 8
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Unless explicitly stated as not affected, all previous versions of packages in any minor update stream of a product listed here should be assumed vulnerable, although may not have been subject to full analysis.

## 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
<b>CVSS v3 Base Score</b>	7.8	7.8
<b>Attack Vector</b>	Local	Local
<b>Attack Complexity</b>	Low	Low
<b>Privileges Required</b>	None	None
<b>User Interaction</b>	Required	Required
<b>Scope</b>	Unchanged	Unchanged
<b>Confidentiality Impact</b>	High	High
<b>Integrity Impact</b>	High	High
<b>Availability Impact</b>	High	High

## CVSS v3 Vector

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

**NVD:** CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

## Frequently Asked Questions

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Why is Red Hat's CVSS v3 score or Impact different from other vendors? >

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My product is listed as "Under investigation" or "Affected", when will Red Hat release a fix for this vulnerability? >

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What can I do if my product is listed as "Will not fix"? >

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What can I do if my product is listed as "Fix deferred"? >

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What is a mitigation? >

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I have a Red Hat product but it is not in the above list, is it affected? >

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Why is my security scanner reporting my product as vulnerable to this vulnerability even though my product version is fixed or not affected? >

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My product is listed as "Out of Support Scope". What does this mean? >



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