



# Linux Kernel Use-After-Free Vulnerability

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2022-2586
<b>State</b>	RESERVED
<b>Assigner</b>	cve@mitre.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2024-01-08 18:15:00 UTC
<b>Updated</b>	2024-01-12 16:21:00 UTC
<b>Description</b>	Linux Kernel contains a use-after-free vulnerability in the nft_object, allowing local attackers to escalate privileges.

## Risk And Classification

**EPSS:** 0.022170000 probability, percentile 0.844110000 (date 2026-04-01)

**CISA KEV:** Listed on 2024-06-26; due 2024-07-17; ransomware use Unknown

**Problem Types:** CWE-416

## CISA Known Exploited Vulnerability

<b>Vendor</b>	Linux
<b>Product</b>	Kernel
<b>Name</b>	Linux Kernel Use-After-Free Vulnerability
<b>Required Action</b>	Apply updates per vendor instructions or discontinue use of the product if updates are unavailable.
<b>Notes</b>	This vulnerability affects a common open-source component, third-party library, or a protocol used by different products. For more information, please see: <a href="https://seclists.org/oss-sec/2022/q3/131">https://seclists.org/oss-sec/2022/q3/131</a> ; <a href="https://nvd.nist.gov/vuln/detail/CVE-2022-2586">https://nvd.nist.gov/vuln/detail/CVE-2022-2586</a>

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	14.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	16.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	18.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	20.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	22.04	All	All	All
Operating System	<a href="#">Linux</a>	<a href="#">Linux Kernel</a>	All	All	All	All

## References

## References

Reference	Source	Link	Tags
USN-5560-2: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
USN-5582-1: Linux kernel (Azure CVM) vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
ZDI-22-1118   Zero Day Initiative		<a href="https://www.zerodayinitiative.com">www.zerodayinitiative.com</a>	Third Pa
USN-5564-1: Linux kernel (Intel IoTG) vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
USN-5566-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
USN-5560-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
CVE - CVE-2022-2586		<a href="https://cve.mitre.org">cve.mitre.org</a>	Third Pa
USN-5562-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
USN-5567-1: Linux kernel (OEM) vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
USN-5565-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
oss-security - CVE-2022-2586 - Linux kernel nf_tables cross-table reference UAF		<a href="https://www.openwall.com">www.openwall.com</a>	Mailing
[PATCH 1/3] netfilter: nf_tables: do not allow SET_ID to refer to another table		<a href="https://lore.kernel.org">lore.kernel.org</a>	Mailing
USN-5557-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="https://ubuntu.com">ubuntu.com</a>	Third Pa
CVE Program record	CVE.ORG	<a href="https://www.cve.org">www.cve.org</a>	canonic
NVD vulnerability detail	NVD	<a href="https://nvd.nist.gov">nvd.nist.gov</a>	canonic
CISA Known Exploited Vulnerabilities catalog	CISA	<a href="https://www.cisa.gov">www.cisa.gov</a>	kev

No vendor comments have been submitted for this CVE.

## Legacy QID Mappings

<a href="#">160106</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9827)
<a href="#">160107</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9828)
<a href="#">160108</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9829)
<a href="#">160109</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9830)
<a href="#">160210</a> Oracle Enterprise Linux Security Update for kernel (ELSA-2022-7683)
<a href="#">160270</a> Oracle Enterprise Linux Security Update for kernel (ELSA-2022-8267)
<a href="#">180938</a> Debian Security Update for linux (DSA 5207-1)
<a href="#">181002</a> Debian Security Update for linux-5.10 (DLA 3102-1)
<a href="#">181091</a> Debian Security Update for linux (DLA 3131-1)
<a href="#">182513</a> Debian Security Update for linux (CVE-2022-2586)
<a href="#">198891</a> Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5560-1)

<a href="#">198892</a> Ubuntu Security Notification for Linux kernel (OEM) Vulnerabilities (USN-5567-1)
<a href="#">198894</a> Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5566-1)
<a href="#">198895</a> Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5562-1)
<a href="#">198896</a> Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5565-1)
<a href="#">198897</a> Ubuntu Security Notification for Linux kernel (Intel IoTG) Vulnerabilities (USN-5564-1)
<a href="#">198911</a> Ubuntu Security Notification for Linux kernel (Azure CVM) Vulnerabilities (USN-5582-1)
<a href="#">240815</a> Red Hat Update for kernel-rt (RHSA-2022:7444)
<a href="#">240817</a> Red Hat Update for kernel security (RHSA-2022:7683)
<a href="#">240869</a> Red Hat Update for kernel-rt (RHSA-2022:7933)
<a href="#">240904</a> Red Hat Update for kernel security (RHSA-2022:8267)
<a href="#">242890</a> Red Hat Update for kernel (RHSA-2024:0724)
<a href="#">283034</a> Fedora Security Update for kernel (FEDORA-2022-9bbb1d9b7b)
<a href="#">283035</a> Fedora Security Update for kernel (FEDORA-2022-484e226872)
<a href="#">354060</a> Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.4-2022-035
<a href="#">354081</a> Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.4-2022-036
<a href="#">354082</a> Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.15-2022-008
<a href="#">354084</a> Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.10-2022-020
<a href="#">354439</a> Amazon Linux Security Advisory for kernel : ALAS2022-2022-150
<a href="#">354468</a> Amazon Linux Security Advisory for kernel : ALAS2022-2022-185
<a href="#">354542</a> Amazon Linux Security Advisory for kernel : ALAS-2022-185
<a href="#">355199</a> Amazon Linux Security Advisory for kernel : ALAS2023-2023-070
<a href="#">355545</a> Amazon Linux Security Advisory for kernel : ALAS2-2023-2100
<a href="#">355557</a> Amazon Linux Security Advisory for kernel : ALAS-2023-1773
<a href="#">377012</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2022:0036)
<a href="#">377117</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2022:0158)
<a href="#">377871</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2023:0001)
<a href="#">377891</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0002)
<a href="#">6140022</a> AWS Bottlerocket Security Update for kernel (GHSA-j7qm-552q-93v3)
<a href="#">6140104</a> AWS Bottlerocket Security Update for kernel (GHSA-j7qm-552q-93v3)

<a href="#">6140134</a> AWS Bottlerocket Security Update for kernel (GHSA-J/qm-55zq-93v3)
<a href="#">672278</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2686)
<a href="#">672286</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2654)
<a href="#">672354</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2732)
<a href="#">672391</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2767)
<a href="#">672410</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2796)
<a href="#">752708</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3704-1)
<a href="#">752724</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3775-1)
<a href="#">752750</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3844-1)
<a href="#">753063</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:4617-1)
<a href="#">753095</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3585-1)
<a href="#">753370</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3609-1)
<a href="#">753374</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3809-1)
<a href="#">755605</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2024:0120-1)
<a href="#">755606</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2024:0117-1)
<a href="#">940732</a> AlmaLinux Security Update for kernel (ALSA-2022:7683)
<a href="#">940766</a> AlmaLinux Security Update for kernel-rt (ALSA-2022:7444)
<a href="#">940798</a> AlmaLinux Security Update for kernel (ALSA-2022:8267)
<a href="#">940843</a> AlmaLinux Security Update for kernel-rt (ALSA-2022:7933)
<a href="#">960176</a> Rocky Linux Security Update for kernel-rt (RLSA-2022:7444)
<a href="#">960184</a> Rocky Linux Security Update for kernel (RLSA-2022:7683)

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